SUMMARY PRECISION REGULATORS, FLOW AND PRESSURE SENSOR



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Ø	• SQUARE DIAL PRESSURE GAUGE		C6 .39	EGULATORS, FLOW
				SUMMARY PRECISION REGULATORS, FLOW AND PRESSURE SENSOR
				SUA

PRECISION PRESSURE REGULATOR WITH HIGH EXAUST FLOW, SERIE GS

GS is a series of precision regulators, designed for rapid relief of overpressure and a high flow rate.

They feature identical and opposing regulation valves on the inlet and outlet sides. This enables the regulator to behave symmetrically - precise regulation with a high rate of flow both in and out.

The pressure setting is virtually insensitive to changes in the upstream pressure (see diagram below), which guarantees accuracy even when the mains pressure fluctuates considerably.

A slight escape of air is required for correct operation of the regulator - it must not be considered a defect.

The regulator can be fixed using the through holes in the body or a bracket accessory.

The body has a 1/8" pressure gauge fitting.

GS regulators are suitable for applications requiring good accuracy in maintaining the pressure and a certain sensitivity in relieving pressure peaks, e.g. to supply low-friction cylinders, reel tensioners and coil winders.

Two sizes of compressed air fitting are available: 1/8" and 1/4".

Three different setting ranges are available: 0 to 2 bar, 0 to 4 bar and 0 to 8 bar.

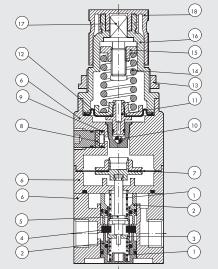


		- /	
TECHNICAL DATA		1/8″	1/4″
Threaded port		1/8″	1/4″
Setting range	bar	0 to 2 - 0 t	to 4 - 0 to 8
Max. input pressure	bar	1	0
Flow rate at 6.3 bar ΔP 0.5 bar	Nl/min	900	1170
Flow rate at 6.3 bar ΔP 1 bar	Nl/min	1200	1380
Fluid		Unlubricate	d filtered air
			ast 10 µm pre-filtered
Temperature range	°C	From -1	0 to +50
Mounting position			position
Pressure gauge port		G	/8″
Weight	g	6	00
Exaust flow rate at 4 bar (regulated pressure)			
ΔP 0.1 bar	Nl/min	450	810
ΔP 0.5 bar	Nl/min	900	1190
Variation in regulated pressure (2 bar) with changes in upstream pressure (4-10 bar)			20
Relieving sensitivity	mbar		30
Air consumption – continuous escape	Nl/min	<	0.1
Notes			st always be set upwards.
		sure regulator with a rated pressure	
			to the required value.
		Do not take air from	pressure gauge ports.

COMPONENTS

- Spring: stainless steel
 Cartridges: nickel-plated brass
 Poppet: nickel-plated brass
 Ring: vulcanized NBR

- (5) Control lever: brass
- 6 Bodies: painted aluminium
- Control diaphragm: oil-proof rubber 1
- Filter: sintered bronze 8
- Ő Throttle cartridge: brass
- (10) Ball: stainless steel
- (1) Ball valve: brass
- (2) Regulation diaphragm: NBR
- (13) Ring nut: technopolymer
- Adjusting spring: steel (14)
- Scroll: brass (15)
- Bell: technopolymer
- 17 Adjusting screw: brass
- (18) Knob: technopolymer

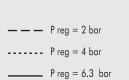


C6.2

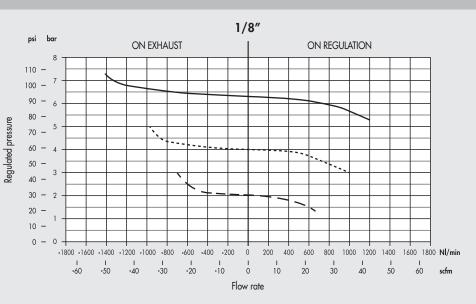
PRECISION PRESSURE REGULATOR WITH HIGH EXAUST FLOW, SERIE GS



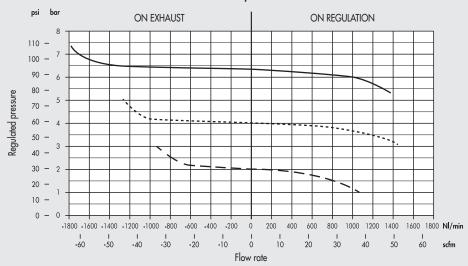
FLOW RATE



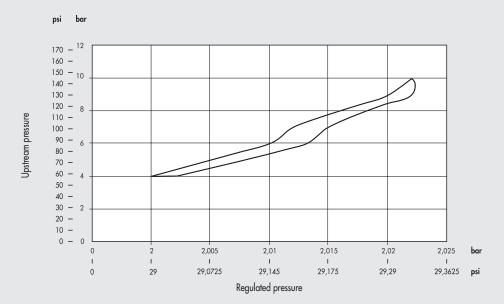
Upstream pressure = 10 bar



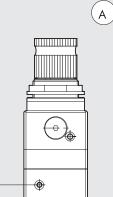


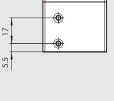


UPSTREAM PRESSURE SENSITIVITY



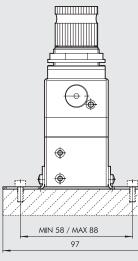
INSTALLATION



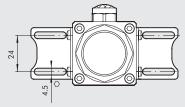


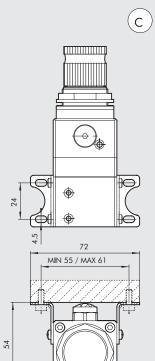
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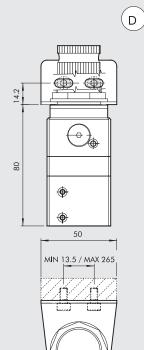
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EXHAUST G 1/8" G 1/4"

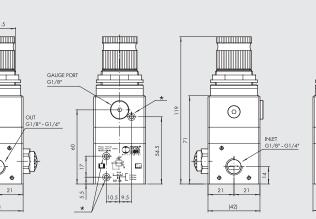
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(42)



(a) On the wall with 2 M3 hex screws
(b) On the base with legs code 9200710
(c) On the wall with legs code 9200710
(d) On the wall with bracket code 9200701



Code		Description
55112	00	REG. GS 1/8 02
55113	00	REG. GS 1/8 04
55114	00	REG. GS 1/8 08
55122	00	REG. GS 1/4 02
55123	00	REG. GS 1/4 04
55124	00	REG. GS 1/4 08

UNITS

17

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ACCESSORIES

R/FR FIXING BRACKET

14.2

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C	フ	

Description
SF100 - BIT - ND 1/4 - SY1

SPARES PARTS

UPPER COVER FOR REG GS

Description
SPARES CS REG GS 02
SPARES CS REG GS 04
SPARES CS REG GS 08



Code	Description
9200710	Fixing bracket kit
N.B. supplied com	nplete with four M4X6 screws

PRESSURE GAUGE



Code 9700102 Description M 40 1/8 04 9700101 M 40 1/8 012



9700109 M 40x40 1/8 04 9700110 M 40x40 1/8 012

Code 9250835 9250836

9250837

UNITS

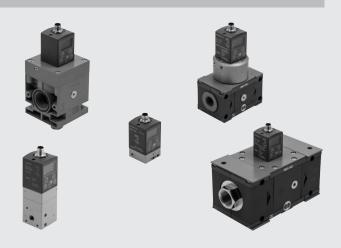
C6



NOTES

PROPORTIONAL PRECISION PRESSURE REGULATOR REGTRONIC SERIES

Proportional pressure regulators series REGTRONIC have the job of precisely regulating the pressure in a system, the variables depending on the input command. Remote control regulators are controlled by means of an M12x1 cable and connector and can have Volt, mA, RS232 control or via IO-Link. Regulators with a display can be controlled via a cable or directly using the keys below the display. The pressure value and a series of information and diagnostics are visible at all times on the graphic display. The user-display interface, LEDs and buttons are all on one side. The programming and reading software is comprehensive, simple and intuitive. Pressure control takes place in a "closed-loop" with an electronic precision pressure sensor that measures the downstream pressure, a control system that compares it with the desired pressure, and two mini solenoid valves that adjust the pressure to reach the target value. The Wireless versions are able to communicate with Ethernet networks (MQTT communication) and mobile devices, such as smartphones and tablets with Bluetooth® connection through a dedicated APP. With the Metal Work RegUp App, it is possible to set and view the regulated pressure in real time, set all operating parameters and view pressure trend graphs.



TECHNICAL DATA				EGTRON	IC		REGTRONIC NEW DEAL	RE	GTRON 300	IIC			RONIC 00	
Threaded port		M5	1/	/8″	1/	/4″	3/4" 1"	1/2″	3/4″	1″	1'	' 11/4″	1 1/2"	2″
Fluid		Filtered, unlubricated air.												
	The air must be filtered at least 10 µm and without condensation.													
MIN inlet pressure						Regulation pro								
MAX inlet pressure						1	1							
Temperature range	°C) to 50						
Pressure regulation range	bar				fro	m 0.05 to	p 10 (settable full	scale and	d minim	um pre	sure)			
Flow rate at 6.3 bar $\Delta P 0.5$	Nl/min	10	13	800	15	500	10000		4500			18000		20000
Flow rate at 6.3 bar ∆P 1	NI/min	10		150	17	700	13000		7000			-		-
Exhaust flow rate at 6.3 bar with 0.1 bar overpress	ure NI/min	2		00		300	1800		250			400		400
Exhaust flow rate at 6.3 bar with 0.5 bar overpress		9		000	15	500	2000		500			850		850
Response time with $\Delta P = 1$ bar	Volume [cc]	100	100	1000	100	1000	1000		1000			1000		1000
from 6 to 7 bar	S	0.5	0.1	0.15	0.1	0.15	0.27		0.25			0.2		0.2
from 7 to 6 bar	S	0.55	0.1	0.15	0.1	0.15	0.27		0.33			0.35		0.35
Weight	kg	0.2	0.	38	0.	38	1.3		1.5			5		5.8
Class of protection								65						
Supply voltage range IO-Link version	VDC							8 to 30						
Current absorption		Max 150 mA at 18VDC												
Supply voltage range analog version	VDC	12 -10% 24 +30%												
Minimum operating voltage	VDC	10.8												
Maximum operating voltage	VDC	31.2												
Maximum admissible voltage	VDC													
Current absorption		max 220 mA at 12VDC												
Input signal (input impedence)	Voltage	0 to 5 VDC, 0 to 10 VDC (approx. 6.3 KΩ)												
	Current						4 to 20 mA (a		00 Ω)					
	Serial ports	RS 232												
	Manual	Keypad 0 to 10 VDC (1 VDC = 1 bar) - 1 mA max												
Output signal	Analog version voltage	4 to 20 mA (4 mA = 0 bar, 20 mA = 10 bar)												
	Analog version current													
	Digital	PNP open collector output: max 24VDC 60 mA												
Hadamada		NPN open collector output: max 24VDC 60 mA ± 0.2% (Full scale)												
Hysteresis Repeatability							± 0.2% (1 ± 0.2% (1							
Sensitivity/Dead-band							setting range 1							
Output pressure (display version)	Accuracy													
Ouput pressure (dispidy version)	Unit of measurement													
	Minimum resolution	bar, MPa, psi 0.01 bar - 0.001 MPa - 0.01 psi												
Analog output accuracy							± 0.1% of							
Temperature characteristics								nbar / °C	9					
Installation position								position						
Notes		The fee	tures sh	own refer	to the s	tatic con			motion	on the a	outout	side, the pr	essure m	av varv
			The features shown refer to the static condition only. With air consumption on the output side, the pressure may vary. On all anolog versions you can set the parameters using the software "MWRegtronic" downloadable from the											
							nect the PC to Re							
								J						

ROPORTIONAL PRECISION PRESSURE REGULATOR REGTRONIC SERIES



REMOTE-CONTROL VERSION



DISPLAY VERSION



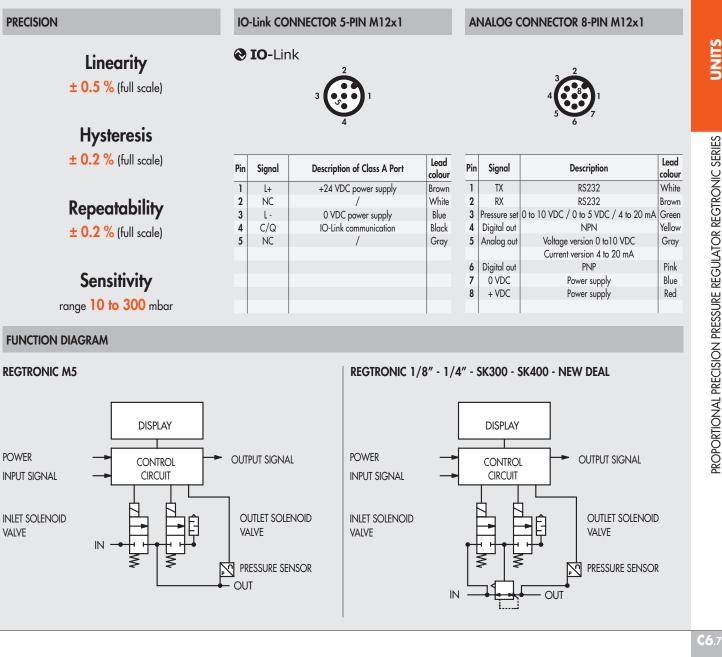
PROGRAMMABLE AND FLEXIBLE

Setting options:

- LANGUAGE
- UNIT OF MEASUREMENT
- TYPE OF INPUT
- TYPE OF DIGITAL OUTPUT
- DEAD-BAND
- FULL SCALE
- MINIMUM PRESSURE

The remote-control version of the Regtronic has two diagnostic LEDs.

The display version also has buttons for entering the various parameters.



WIRELESS CONNECTION

With the Wireless version of Regtronic, you can establish a connection to a Wi-Fi network via an access point or gateway to monitor and collect all the measured gas values.

Connection to a MQTT Broker via an Access point

MQTT







Gathering data from the field makes it possible to:

- carry out a predictive diagnosis of the system;
- monitor the operating parameters at all times and optimize the operation of the machines and the pneumatic system. -

The software can be implemented with analysis functions that provide:

- machine efficiency monitoring;
- to check the pressure trends and long-term forecasting (plant improvement evaluation).

The Metal Work RegUp App can be used for connection via Bluetooth to Metal Work proportional pressure regulators in the REGTRONIC series with a wireless interface, from Android smartphone and iOS.

With the Metal Work RegUp App, it is possible to set and view the regulated pressure in real time, set all operating parameters and view pressure trend graphs.



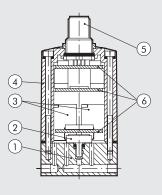
2.95



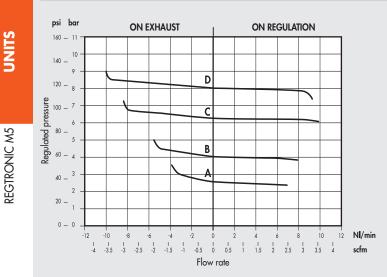
NOTES	
No125	

COMPONENTS

- BODY: painted aluminium
 PRESSURE SENSOR
 SOLENOID VALVE: 10 mm series PLT-10
 SHELL: technopolymer
 CONNECTOR M12
 ELECTRONIC BOARDS

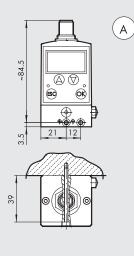


FLOW CHARTS

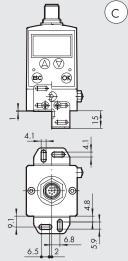


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FIXING OPTIONS



(в) 3.5 35 THI LANS GEOM D ~83.5 $\bigcirc \bigcirc$ (ESC) 6 1 1× 1 13 deols 5 4.5 15.5 11 9.1

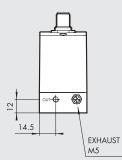


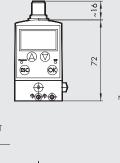
- (A) On the wall with 2 M3 screws, with B On the wall using the M3 threaded holes on
- the front, rear and underside © On the wall with legs code 9200711

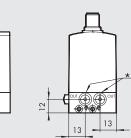
REGTRONIC M5



DIMENSIONS AND ORDERING CODES







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9

Description 5520500 REGTRONIC M5 with dispaly OUT 0-10 V REGTRONIC M5 remote control OUT 0-10 V 5520502 REGTRONIC M5 with dispaly OUT 4-20 mA 5540500 5540502 REGTRONIC M5 remote control OUT 4-20 mA

REGTRONIC IO-Link M5 with display REGTRONIC IO-Link M5 remote control 5530500 5530502

Code

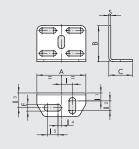


* alternative outputs, removing the M5 cap

ACCESSORIES

FIXING BRACKET KIT

NOTES



Code		De	escriptio	n							
9200	711	Re	Regtronic M5 Fixing bracket kit								
Α	В	С	F	1	11	12	13	14	15	S	
30	22	14.5	4.2	6.8	4.8	5.9	9.1	2	6.5	1.2	

Note: supplied complete with four M3x6 screws

REGTRONIC M5

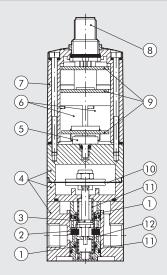
UNITS

REGTRONIC 1/8"; 1/4"

COMPONENTS

- CARTRIDGES: nickel-plated brass
 RING: vulcanized NBR
 ROD: steel
 BODIES: painted aluminium
 PRESSURE SENSOR
 SOLENOID VALVE: 10 mm series PLT-10
 SHELL: tachagadumar

- ⑦ SHELL: technopolymer
 ⑧ CONNECTOR M12
 ⑨ ELECTRONIC BOARDS
- ONTROL DIAPHRAGM: anti-oil rubber
- (1) SPRING: stainless steel
- POPPET: nickel-plated brass

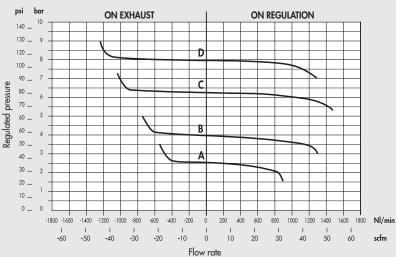


FLOW CHARTS

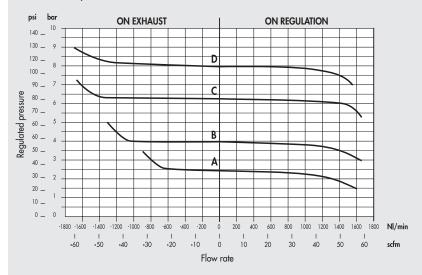
UNITS

REGTRONIC 1/8"; 1/4"

REGTRONIC 1/8"





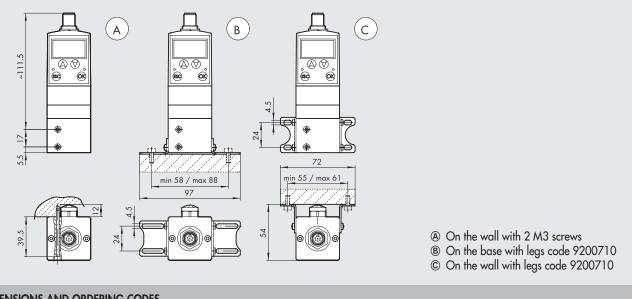


A = 2.5 bar
B = 4 bar
C = 6.3 bar
D = 8 bar
Pm = 10 bar

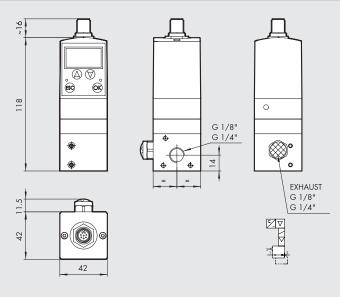
A = 2.5 bar
B = 4 bar
C = 6.3 bar
D = 8 bar
Pm = 10 bar



FIXING OPTIONS



DIMENSIONS AND ORDERING CODES

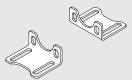


Code Description

5521500	REGTRONIC 1/8 with display OUT 0-10 V
5521502	REGTRONIC 1/8 remote control OUT 0-10 V
5522500	REGTRONIC 1/4 with display OUT 0-10 V
5522502	REGTRONIC 1/4 remote control OUT 0-10 V
5541500	REGTRONIC 1/8 with display OUT 4-20 mA
5541502	REGTRONIC 1/8 remote control OUT 4-20 mA
5542500	REGTRONIC 1/4 with display OUT 4-20 mA
5542502	REGTRONIC 1/4 remote control OUT 4-20 mA
5531500	REGTRONIC 10-Link 1/8 with display
5531502	REGTRONIC IO-Link 1/8 remote control
5531510	REGTRONIC IO-Link 1/8 with display and Wi-Fi
5532500	REGTRONIC 10-Link 1/4 with display
5532502	REGTRONIC IO-Link 1/4 remote control
5532510	REGTRONIC IO-Link 1/4 with display and Wi-Fi

ACCESSORIES

FIXING BRACKET KIT



Code 9200710

Description Fixing bracket kit

Note: supplied complete with four M4x6 screws

C6

NOTES

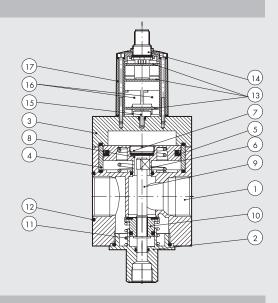
REGTRONIC Newdeal

COMPONENTS

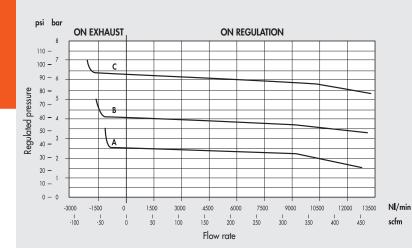
- (1) REGULATOR BODY: aluminium
- 2 LOWER CAP: aluminium

- (2) LOWER CAP: aluminium
 (3) UPPER PLATE: aluminium
 (4) SPACER: aluminium
 (5) GASKET: NBR
 (6) PISTON ROD: aluminium
 (7) CAP FOR PLAIN GASKET: OT58 brass
 (8) PLAIN GASKET: NBR
 (9) ROD: OT58 brass
 (10) VALVE: OT58 brass
 (10) VALVE: SPENIC: steal

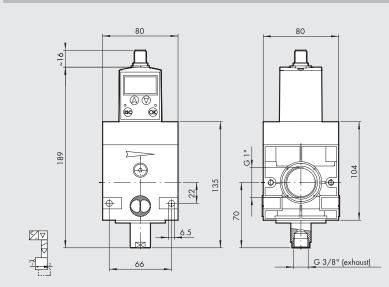
- 1) VALVE SPRING: steel
- ② GASKETS: NBR
 ③ ELECTRONIC BOARDS
- (A) CONNECTOR M12
- (6) PRESSURE SENSOR
 (6) SOLENOID VALVE: 10 mm series PLT-10
- (7) SHELL: tecnopolymer



FLOW CHARTS



DIMENSIONS AND ORDERING CODES



A = 2.5 bar

C = 6.3 bar

Pm = 10 bar

B = 4 bar

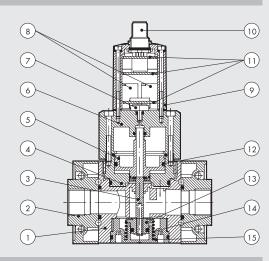
Code	Description
1520003	REGTRONIC New Deal 3/4 with display OUT 0-10 V
1520004	REGTRONIC New Deal 3/4 remote control OUT 0-10 V
1620003	REGTRONIC New Deal 1 with display OUT 0-10 V
1620004	REGTRONIC New Deal 1 remote control OUT 0-10 V
1520043	REGTRONIC New Deal 3/4 with display OUT 4-20 mA
1520044	REGTRONIC New Deal 3/4 remote control OUT 4-20 mA
1620043	REGTRONIC New Deal 1 with display OUT 4-20 mA
1620044	REGTRONIC New Deal 1 remote control OUT 4-20 mA
1520033	REGTRONIC IO-Link New Deal 3/4 with display
1520034	REGTRONIC IO-Link New Deal 3/4 remote control
1620033	REGTRONIC IO-Link New Deal 1 with display
1620034	REGTRONIC IO-Link New Deal 1 remote control



REGTRONIC 300

COMPONENTS

- (1) BODY: tecnopolymer
- END PLATE: zamak
- (2) 3 (4) STEM: OT58 brass
- UPPER CUP: aluminium
- 5 PISTON: OT58 brass
- CUP: aluminium 6
- (7) (8) PRESSURE SENSOR
 - SOLENOID VALVE: 10 mm series PLT-10
- SHELL: tecnopolymer 9
- 10 CONNECTOR M12
- 1) ELECTRONIC BOARDS
- GASKET: NBR (12)
- <u>(</u>]3 VALVE WITH NBR VULCANIZED GASKET
- VALVE SPRING: stainless steel (14)
- (5) LOWER CUP: tecnopolymer



FLOW CHARTS

ON EXHAUST

ORDERING CODES

Description

Code

4402012A

4402013A

4402012

4402013

4502012

4502013

4602012

4602013

4402412A

4402413A

4402412

4402413 4502412

4502413

4602412

4602413

4402312A

4402313A

4402312

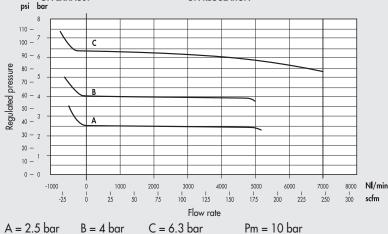
4402313

4502312 4502313

4602312

4602313





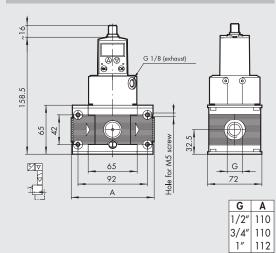
REGTRONIC 300 with display without end plates OUT 0-10 V

REGTRONIC IO-Link 300 1/2 with display

REGTRONIC IO-Link 300 1 with display

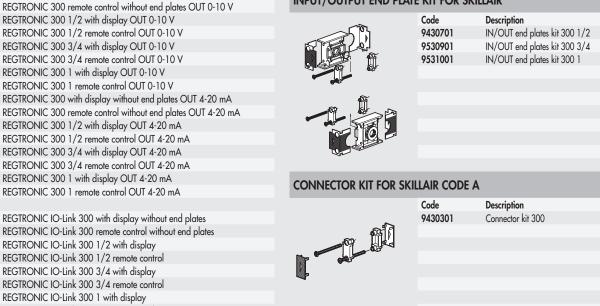
REGTRONIC IO-Link 300 1 remote control

DIMENSIONS



ACCESSORIES

INPUT/OUTPUT END PLATE KIT FOR SKILLAIR



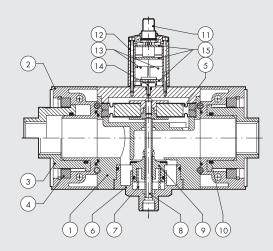
C6

C6.15

REGTRONIC 400

COMPONENTS

- 1) BODY: Aluminium
- ② END PLATE: Aluminium
- (3) THREADED BUSH, AXIAL
- ADJUSTMENT: anodized aluminium ④ RETAINING RING: OT58 brass
- 5 ROLLING DIAPHRAGM
- 6 BRASS PLUG: anodized aluminium
- VALVE SPRING: Stainless steel
- 8 STEM: OT58 brass with air relief hole
- Ø VALVE WITH NBR VULCANIZED GASKET
- 10 GASKETS: NBR
- (1) CONNECTOR M12
- (i) CONNECTOR M12(ii) SHELL: technopolymer
- iii SOLENOID VALVE: 10 mm series
- PLT-10
- () PRESSURE SENSOR
- 15 ELECTRONIC BOARDS

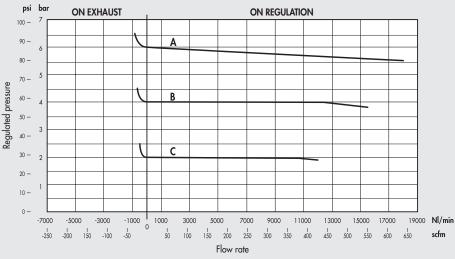


FLOW CHARTS

NTS NTS

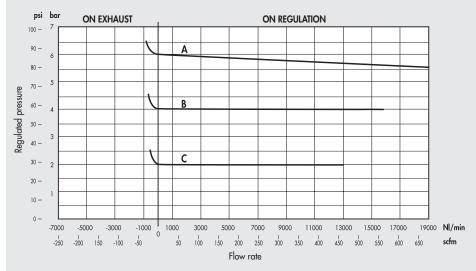
REGTRONIC 400







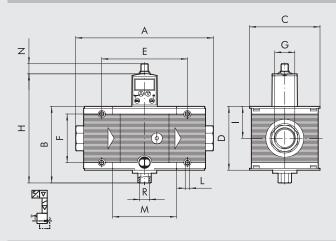
REGTRONIC 400 2"







DIMENSIONS



ORDERING CODES

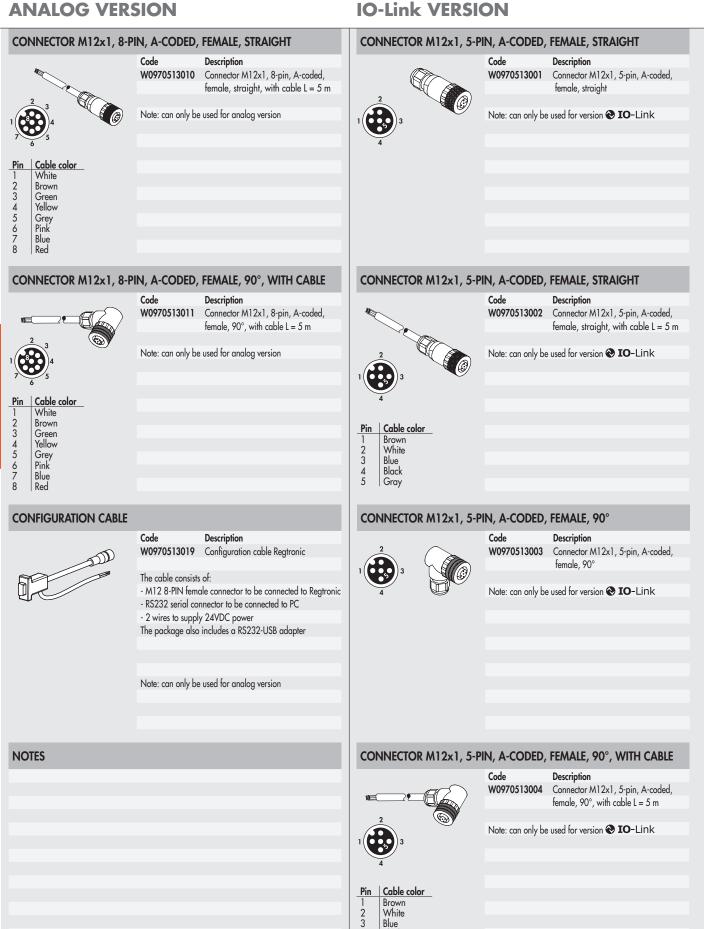
Code	Description	Code
6102012A	REGTRONIC 400 with display without end plates OUT 0-10 V	6102312
6102013A	REGTRONIC 400 control remote without end plates OUT 0-10 V	6102313
6102012	REGTRONIC 400 1 with display OUT 0-10 V	6102312
6102013	REGTRONIC 400 1 control remote OUT 0-10 V	6102313
6202012	REGTRONIC 400 1 1/4 with display OUT 0–10 V	6202312
6202013	REGTRONIC 400 1 1/4 control remote OUT 0-10 V	6202313
6302012	REGTRONIC 400 1 1/2 with display OUT 0-10 V	6302312
6302013	REGTRONIC 400 1 1/2 control remote OUT 0-10 V	6302313
6402012	REGTRONIC 400 2 with display OUT 0-10 V	6402312
6402013	REGTRONIC 400 2 control remote OUT 0-10 V	6402313
6102412A	REGTRONIC 400 with display without end plates OUT 4-20 mA	
6102413A	REGTRONIC 400 control remote without end plates OUT 4-20 mA	
6102412	REGTRONIC 400 1 with display OUT 4-20 mA	
6102413	REGTRONIC 400 1 control remote OUT 4-20 mA	
6202412	REGTRONIC 400 1 1/4 with display OUT 4-20 mA	
6202413	REGTRONIC 400 1 1/4 control remote OUT 4-20 mA	
6302412	REGTRONIC 400 1 1/2 with display OUT 4-20 mA	
6302413	REGTRONIC 400 1 1/2 control remote OUT 4-20 mA	
6402412	REGTRONIC 400 2 with display OUT 4-20 mA	
6402413	REGTRONIC 400 2 control remote OUT 4-20 mA	

REGTRONIC 400				
1″	1 1/4″	1 1/2″	2″	
	225 to 255		283 to 313	
	1	27		
116				
105				
141.4				
80				
1″	1 1/4″	1 1/2″	2″	
182				
52.5				
Hole for M6 screws				
105.4				
~16				
1/4″				
		1" 1 1/4" 225 to 255 1 1 1 1 1 14 1 2 1" 1 1/4" 1 5 Hole for 10 ~	1" 1 1/4" 1 1/2" 225 to 255 127 116 105 141.4 80 1" 1 1/4" 1 1/2" 182 52.5 Hole for M6 screws 105.4 ~16	

Code	Description
6102312A	REGTRONIC IO-Link 400 with display without end plates
6102313A	REGTRONIC IO-Link 400 remote control without end plates
6102312	REGTRONIC IO-Link 400 1 with display
6102313	REGTRONIC IO-Link 400 1 remote control
6202312	REGTRONIC IO-Link 400 1 1/4 with display
6202313	REGTRONIC IO-Link 400 1 1/4 remote control
6302312	REGTRONIC IO-Link 400 1 1/2 with display
6302313	REGTRONIC IO-Link 400 1 1/2 remote control
6402312	REGTRONIC IO-Link 400 2 with display
6402313	REGTRONIC IO-Link 400 2 remote control

ACCESSORIES

INPUT/OUTPUT END PLATE KIT FOR SKILLAIR				
	Code 9631001 9631101 9631201 9631301	Description IN/OUT end plates kit 400 1 IN/OUT end plates kit 400 1 1/4 IN/OUT end plates kit 400 1 1/2 IN/OUT end plates kit 400 2		
CONNECTOR KIT FOR SKILLAIR CODE A				
	Code 9630301	Description Connector kit 400		



Blue

Black Gray

4 5

ACCESSORIES REGTRONIC

PRESSURE SWITCHES

This type of pressure switch features a high degree of miniaturisation and a modern attractive design.

It can be installed in any position and also mounted onto a wall by means of two transversal holes.

In order to reduce wiring times, it is supplied ready assembled with a 2-metre electric cable or an M8 connector with a 300-mm cable.

The contact is the switching type, which means it can be normally open or normally closed.

A knurled push-lock handle is provided for regulation



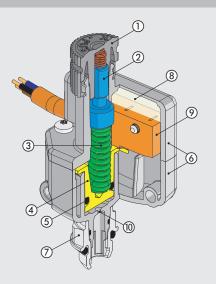
IECHNICAL DAIA		
Adjustable pressure interval	bar	0.5 to 10
Hysteresis (not adjustable)	bar	from 0.4 to 0.8 (See diagram)
Maximum pressure	bar	15
	MPa	1.5
	psi	217
Operating temperature range at: 1 MPa; 10 bar; 145 psi	°C	50
	°F	122
Lower threaded port		G 1/8" - G 1/4"
Maximum current	A	2
Maximum voltage	V	250
Outside diameter of cable	mm	4.9
Number of wires and cross section		3 x 0.5 mm ²
Contacts		Normally-Open (NO) and Normally-Closed (NC)
Protection		IP65
Number of switchings		5 x 10 ⁶
Fluid		Filtered lubricated or unlubricated compressed air. Lubrication, if used, must be continuous
Mounting position		In any position.
Weight	g	With cable 2 m: 12
		With M8 connector: 35

COMPONENTS

Technopolymer adjusting push-lock handle
 Brass adjusting screw
 Steel piston spring
 Brass piston
 NBR gaskets
 Technopolymer bodies
 Rotary connection in nickel-plated brass

- Rotary connection in nickel-plated brass
 Resin finish for IP65
 Electrical contact

- (iii) Choke to reduce peaks in pressure



DIMENSIO	NS AND ORDERING CODES
	19.5 10.5 10.5
Code	
9000401 9000402	1/8 2A NO/NC pressure switch, 2-metre cable 1/8 2A NO/NC pressure switch, M8 connector
9000405	1/4 2A NO/NC pressure switch, 2-metre cable
9000406	1/4 2A NO/NC pressure switch, M8 connector
WIRING D	IAGRAM
VERSION W	/ITH CABLE
-=	-2 m
VERSION V	/ITH M8 CONNECTOR

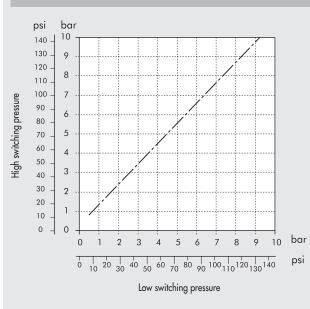
М8 - -++++1-1--

~300 mm

- 3 NO

1 - 4 NC

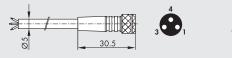




ACCESSORIES

SECURITY KNOB Code Description 9200703 Security knob APR / pressure switch Note: Pull outwards to remove the knob from the pressure switch on the unit. Insert the security knob and regulate the pressure switch. Then press the handle firmly to lock it in position. If the pressure switch needs to be reset, remove the security knob by forcing it laterally with a screwdriver.

M8 STRAIGHT CONNECTOR WITH CABLE

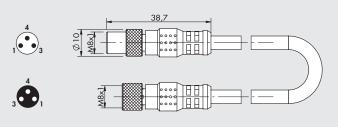


00,	Pin	Cable color
	1	Brown
	3	Blue
	4	Black

Code	Description
02400A0100	M8 female 3 PIN HIGH FLEX CL6 connector with cable L = 1 m
02400A0250	M8 female 3 PIN HIGH FLEX CL6 connector with cable L = 2.5 m
02400A0500	M8 female 3 PIN HIGH FLEX CL6 connector with cable L = 5 m
02400A1000	M8 female 3 PIN HIGH FLEX CL6 connector with cable L = 10 m

Very flexible cables, class 6 according to IEC 60228

M8 ADAPTER CABLE FOR CONNECTION TO THE EB 80 E CM DIGITAL INPUTS MODULE



Code Description

0240010501 M8-M, M8-F 3-pole adapter with cable L = 0.3 mNote: Can be used to connect the pressure switch to the module of digital INPUT **S01** of the EB 80 valves, to the additional M8 INPUT module of the CM valves and to the Profibus-DP IP67 M8 input. Contact type NO (Normally open)

M8F	M8M	Function
pin 1	pin 1	Power supply +
pin 3	pin 2	Signal NO
pin 4	disconnect	



NOTES	
	· · · · · · · · · · · · · · · · · · ·

DIGITAL PRESSURE SWITCH

The digital pressure switch allows both the transmission of electrical pressure signals and the instant display of pressure. Two digital outputs, which can be set according to the two pressure values reached, are available. An analogue output of a voltage proportional to the pressure reading is also available. The values are clearly displayed on a LED video and different parameters can be entered from the keypad. Hysteresis can be adjusted and the unit of measurement for pressure can be modified. Two models are available:

Series **600**, characterised by G1/8" female pneumatic ports, one at the bottom and one at the back (pressure switch supplied with bottom port covered with a removable plug); one-colour LED; pre-wired cable.

Series **640**, characterised by R1/8" male pneumatic ports (taper thread) and M5 female thread inside on the rear side; two-colour LED displays that can be programmed depending on the pressure signal; cable with connector. It is available in analog and IO-Link versions. A kit of accessories is provided for fixing to the top or wall, or to a panel.



TECHNICAL DATA		SERIES 600	SERIES 640	SERIES 640 IO-Link			
Fieldbus			-	IO-Link version 1.1			
Working pressure range			-1 to 10 bar / -0.1 to 1 MPa	,			
Maximum admissible pressure			15 bar / 1.5 MPa				
Readable resolution		0.01 bar / 0.001 MPa / 0.01 kg/cm ² / 0.1 psi					
	VDC		, max ripple 10%	24, Ripple (P-P) ≤10%			
117	mA	≤ 55	≤ 40	≤35 (no load)			
Current consumption	mΑ	≤ 3 5	≤ 40				
Outputs		-	-	OUT 1: IO-Link (C/Q Line) or PNP or NPN			
				configurable			
				OUT 2: Analogue or PNP or NPN			
				configurable			
Digital outputs		PNP: Number of outputs: 2	PNP: Number of outputs: 2	PNP: Open collector output			
		Max current: 80 mA	Max current: 125 mA	Max current: 150 mA			
		Max voltage: 24 VDC	Max voltage: 24 VDC	Max voltage: 24 VDC			
		Residual voltage: ≤ 1V (at 80 mA)	Residual voltage: ≤ 1.5V (at 125 mA)	Residual voltage: ≤ 1V			
				NPN: Open collector output			
				Max current: 150 mA			
				Max voltage: 30 VDC			
				Residual voltage: ≤ 1V			
Analogue output		1/5V ± 2.5% (0 bar - 1V: 10 ba	ar - 5V; it doesn't read the vacum)	1/5V, 0/10V, 4/20 mA configurable			
			1% full scale	Linearity ± 1.5% full scale			
			nce: about 1 kΩ	$1/5V - 0/10V$ (impedance 1 k Ω),			
				$4/20 \text{ mA} (\text{impedance } 500 \Omega)$			
Digital output repeatability			≤ ± 0.2% full scale ± 1 digits	4/ 20 mA (impeddice 500 12)			
Hysteresis		A divertable					
		Adjustable or fixed at 3 digits for operation within a pressure range					
Actuation response time	ms	≤ 2.5					
Interference suppression selectable at	ms	24, 192, 768 25, 100, 250, 500, 1000, 1500					
Short-circuit protection at the outputs		Yes					
LED 7 segment display		3 ½ digit display					
Display colours		red		green			
Display accuracy			6 full scale ±1 digit, ambient temperature 25° =				
Indicators		green LED (output 1), red LED (output 2)	orange LED (output 1 and output 2)	Green or Red LED configurable			
Thermal characteristic			ne calibration pressure (at 25°C), in the temper				
Compressed air ports		2 G1/8″ female thread	1 R1/8" male taper th	read (M5 female inside)			
Power cable			2 m, with five 0.15 mm ² wires, oil-resistant				
		pre-wired cable, not removable	removable	e connector			
Communication speed	Kbps		-	38.4 (COM2)			
Vendor ID / Device ID				1046 (hex 0x0416) / 72 (hex 0x000048)			
Minimum cycle time	ms		-	3			
Process data length			-	2 byte di Input (2 bit BCD;14 bit PDV)			
Weight	g	105, including 2 m cable	86. includir	ng 2 m cable			
	9						
AMBIENT CONDITIONS							
Fluid		Filtored and	unlubricated air, inert non-corrosive and non-	explosive age			
Degree of protection				1 · · · · ·			
	00	IF 40 - IFOD (WITH DCCESS	ory protection assembled)	IP 40			
Temperature range	°C		0 to 50				
Storage temperature	°C	-20 to +60, but without condensate or ice		out condensate or ice			
Ambient humidity			35 to 85% relative humidity; no condensate				
Insulation voltage		1000 VAC for one minute between casing and cable					
Resistance of Insulation		Min. 50 M Ω minimo (at 500 VDC between casing and cable)					
Vibration admitted			ning every minute from 10 to 55 Hz at 10 Hz, fo				
Impact		980 m/s ² (100 g), 3 times in each direction x, y and z	100 m/s ² (10 g), 3 times	in each direction x, y and z			

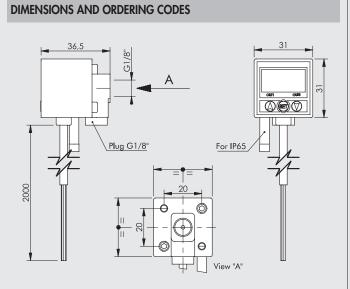
MOUNTING BRACKET BT-1

Е

U Μ Α

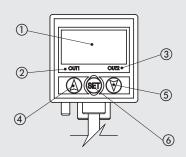
Ρ Ν **C6**

SERIES 600



Description Code Digital pressure switch series 600 9000600

USER INTERFACE

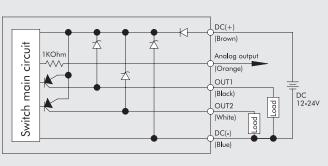


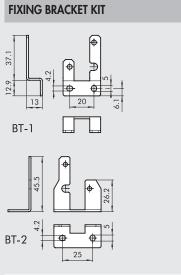
- 3 ¹/₂ digit display, red: showing the pressure reading, all setting information, and the error code
 Digital output 1: green LED
 Digital output 2: red LED

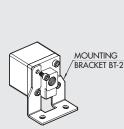
- ④ Button: modifies the value of the selected parameter
 ⑤ Button: modifies the value of the selected parameter
- 6 Setting button: selects the parameter to modify

WIRING DIAGRAM

PNP output



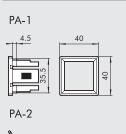


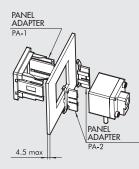


Code Description

9000601 Kit of fixing brackets for digital pressure switches series 600 N.B.: Each kit contains a bracket for fixing on the back and one for fixing at the bottom.

PANEL FIXING KIT





DIGITAL PRESSURE SWITCH

UNITS

Code Description

9000602 Kit for panel fixing for the digital pressure switch series 600

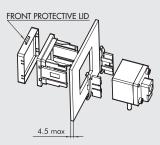
PANEL FIXING KIT WITH PROTECTION





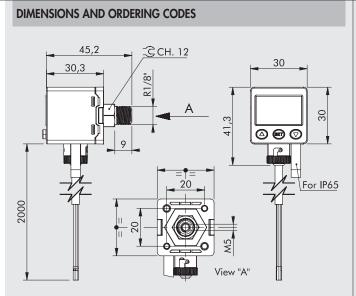
FPC-1

PA-2



Code Description 9000603 Kit for panel fixing with protection for the digital pressure switch series 600

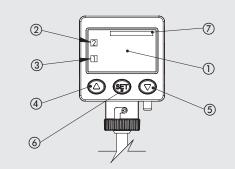
SERIES 640



Description Code

Digital pressure switch series 640 9000640

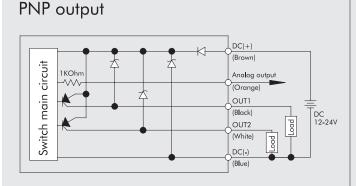
USER INTERFACE



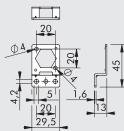
- ① 3 1/2 digit display, green and red: it displays the unit of measurement, 3 ¹/₂ digit display, green and red: it displays the unit of measure the pressure value read, all setting information, the error code.
 Digital output 1: orange LED
 Digital output 2: orange LED
 Button: modifies the value of the selected parameter
 Button: modifies the value of the selected parameter
 Setting button: selects the parameter to modify
 Unit of measurement calculated

- 6 7
- Unit of measurement selected

WIRING DIAGRAM



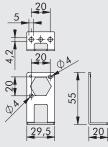
PARALLEL FIXING BRACKET KIT

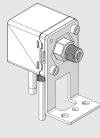




Code Description 9000641 Parallel fixing bracket kit for digital pressure switch series 640

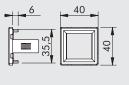
90° FIXING BRACKET KIT

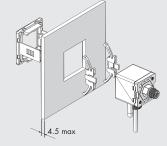




Code Description 9000644 90° fixing bracket kit for digital pressure switch series 640

PANEL FIXING KIT

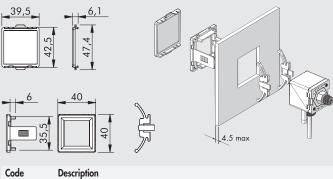






Code Description 9000642 Kit for panel fixing for the digital pressure switch series 640

PANEL FIXING KIT WITH PROTECTION

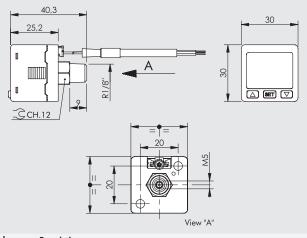


9000643 Kit for panel fixing with protection for the digital pressure switch series 640



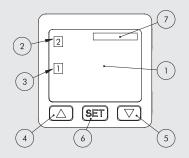
SERIES 640 IO-Link

DIMENSIONS AND ORDERING CODES



Code Description 9000640L Digital pressure switch series 640 IO-Link

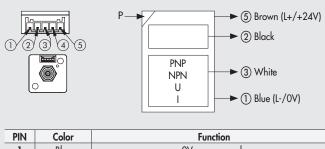
USER INTERFACE



- 1) 3 1/2 digit display, green and red: it displays the unit of measurement, S 72 algin display, green and red. It displays the offit of measure the pressure value read, all setting information, the error code.
 Digital output 1: orange LED
 Button: modifies the value of the selected parameter
 Button: modifies the value of the selected parameter
 Setting button: selects the parameter to modify
 Unit of measurement calocted

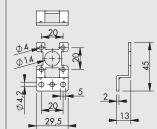
- ⑦ Unit of measurement selected

WIRING DIAGRAM



PIN	Color	Function
1	Blue	OV power supply
2	Black	Digital output OUT 1 or IO-Link (C/Q Line)
3	White	Digital output OUT 2 or analog output
		(1 to 5V, 0 to 10V, 4 to 20 mA)
4	Orange	Disconnect
5	Brown	+24VDC power supply

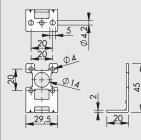
PARALLEL FIXING BRACKET KIT

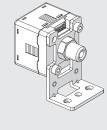




9000641L Parallel fixing bracket kit for digital pressure switch series 640 IO-Link

90° FIXING BRACKET KIT

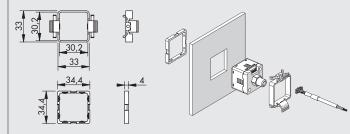




Description Code

9000644L 90° fixing bracket kit for digital pressure switch series 640 IO-Link

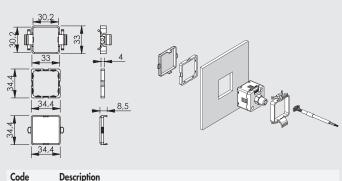
PANEL FIXING KIT



Code Description

9000642L Kit for panel fixing for the digital pressure switch series 640 IO-Link

PANEL FIXING KIT WITH PROTECTION



Description 9000643L Kit for panel fixing with protection for the digital pressure switch series 640 IO-Link

FLOWMETER SERIES FLUX 0

The flowmeters FLUX 0 series are miniaturized devices used to measure air flow rate. They come complete with push-in pipe fittings. Numerous functions can be viewed and set on a three-colour display. They have 2 digital and one analogue outputs, each of which can be freely set to measure the instantaneous flow rate, the accumulated flow rate or the pressure, therefore they can perform the function of flowmeter, flow switch, pressure gauge or pressure switch. They feature reduced dimensions, with a width of only 17 mm.

They teature reduced dimensions, with a width of only 17 mm. The FLUX 0 flowmeters comes in two models: one for flow rates up to 50 Nl/min, the other up to 200 Nl/min, and are can be powered at 12 and 24 VDC.



TECHNICAL DATA		FLUX 0	FLUX 0			
Measured flow range	Nl/min	50 L 0 - 50	200 L 0 - 200			
Direction of flow	INI/ min		irectional			
	bar		9 to 8			
Working pressure range			9 to 8 9 to 0.8			
	MPa					
	psi		to 116			
Maximum admissible pressure	bar		10			
Pipe diameter for push-in fitting	mm	10 - 04 - 10	8			
Connecting cable	VDC		%, ripple max 10%			
Current consumption	mA		≤ 50			
Power cable		Cable Ø 4 length 2 m, oil res	sistant, 26 AGW (6 x 0.15 mm ²)			
Weight	9	100 (incl	uding cable)			
DISPLAY						
Instant flow rate						
Display range	Nl/min	0 - 50	0 - 200			
Minimum setting scale	NI/min	0.1	1			
3	ft³/min	1	1			
Cumulative flow rate						
Display range		9999999.9	99999999			
Minimum setting scale	N	0.1	1			
	ft ³	1	1			
Pressure						
Display range	kPa	-100	to 1000			
Minimum setting scale	kPa		1			
-	bar	(0.01			
	psi	0.1				
PRECISION						
Flow rate						
Guaranteed measuring range			100 % FS			
Display accuracy			± 1 digit 🔺			
Analogue output accuracy			% FS 🔺			
Repeatability			i ± 1 digit ■			
Linearity			% FS			
Temperature characteristic			% FS for a temperature range of 0-15°C or 35-50°C ■			
Pressure characteristic		± 5 % FS	i ± l digit ≭			
Pressure						
Guaranteed measuring range			100 % FS			
Display accuracy			i ± 1 digit ●			
Analogue output accuracy			5 % FS ●			
Repeatability		± 0.2 % F	S ± 1 digit ●			
Linearity		±1	% FS •			
Temperature characteristic		± 2	% FS •			

▲ Data valid under these conditions: input pressure 3 bar, output pressure 1 bar, temperature 25°C

Data valid under these conditions: output pressure 1 bar, temperature 25°C

* Data valid under these conditions: -90 to 800 kPa, output pressure 1 bar, temperature 25°C

 $\bullet~$ Data valid under these conditions: flow rate 0 Nl/min, temperature 25°C

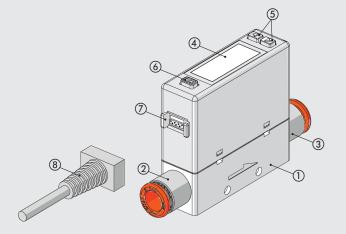
FLOWMETER SERIES FLUX 0



TECHNICAL DATA		FLUX 0	FLUX 0	
		50 L	200 L	
DIGITAL OUTPUTS				
N ° outputs			PNP	
Max current	mA		25	
Max voltage	VDC	_	4	
Residual voltage	V		.5 V	
Response time, with flow rate setting	ms		800, 1500 (default 800)	
Response time, with pressure setting	ms		1000, 1500 (default 2.5)	
Response mode, with flow rate setting			, cumulative mode, cumulative pulse mode 🔶	
		/ 1	r normally closed	
Response mode, with pressure mode setting			mparison mode. Normally open or normally closed ◆	
Hysteresis		Adju	stable	
Short-circuit protection at output			es	
Cumulative pulse output	Nl/impulse	0.5	2	
	ft ³ /impulse	2	7	
ANALOGUE OUTPUT				
Version with voltage	V) impedance	
Version with current	mA	4 to 20, with \leq 300 Ω impedance		
Response time, with flow rate setting	ms	≤	00	
Response time, with pressure setting	ms	≤	50	
AMBIENT CONDITIONS				
Fluid			rt non-corrosive and non-explosive gas.	
		A 5 µm filter and a 0.01 µm	oil purifier are recommended	
Degree of protection		IP	40	
Temperature range	°C	• •	o 50	
Storage temperature	°C	0 to 60 , but without	ut condensate or ice	
Ambient humidity		35 to 85% relative humidity; no condensate		
Insulation voltage		1000 VAC for one minute between casing and cable		
Resistance of Insulation		Min. 50 M Ω (at 500VDC between casing and cable)		
Vibration admitted		1.5 mm amplitude or 10 g with scanning every minute from 10 to 55 Hz at 10 Hz, for 2 hours in each direction x, y and z		
Impact		100 m/s² (10 g), 3 times in each direction x, y and z		
Electromagnetic compatibility (EMC)		IEC 61000-6-2	IEC 61000-6-4	

• Refer to the user manual for further details

COMPONENTS



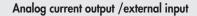
- BODY: technopolymer
 INPUT AUTOMATIC FITTING: nickel-plated brass and technopolymer
 OUTPUT AUTOMATIC FITTING: nickel-plated brass and
- technopolymer ④ DISPLAY LCD

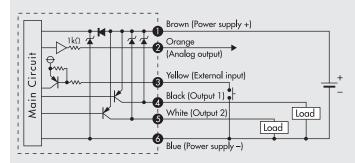
- (5) BUTTON: silicone.
- Used to select the operating mode, ON/FF switching and value setting
- 6 BUTTON: silicone. Used to select the operating mode and confirm the set values
- ⑦ CONNECTOR
- (a) CONNECTOR WITH CABLE: length 2 meters

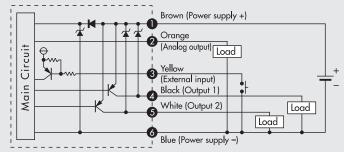
UNITS

WIRING DIAGRAMS

Analog voltage output /external input

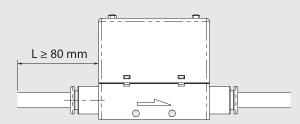






	PIN	Cable color	Function
	1	Brown	Power supply (12 to 24 VDC)
_2	2	Orange	Analog voltage output: 1 to 5 V
(3)			Analog current output: 4 to 20 mA
õ	3	Yellow	External input
-(4)	4	Black	Output 1 (Max. load current: 125 mA)
(5)	5	White	Output 2 (Max. load current: 125 mA)
6	6	Blue	OV (GND)

PNEUMATIC CONNECTION



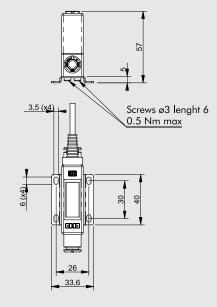
The input pipe must have a straight section of at least 80 mm in length or more, otherwise the measurement will be inaccurate.

NOTES

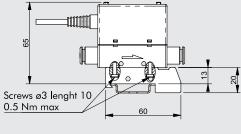


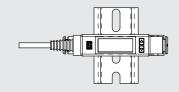
FIXING OPTIONS





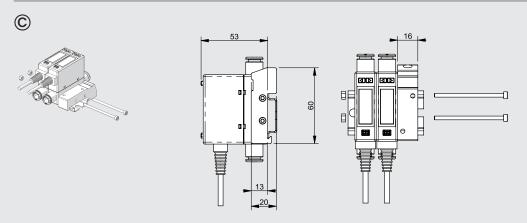




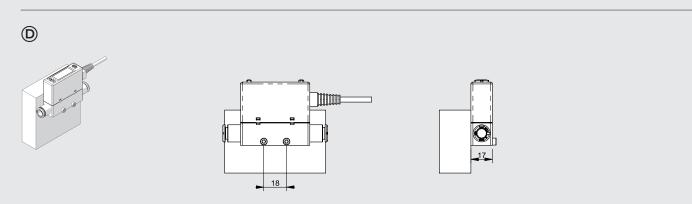


Fixing with bracket code 90009A001 using the included Ø3 self-tapping screws and M3 screws

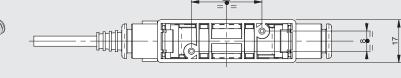
Single fixing on DIN bar with code bracket 90009A002 using the included $\varnothing3$ self-tapping screws

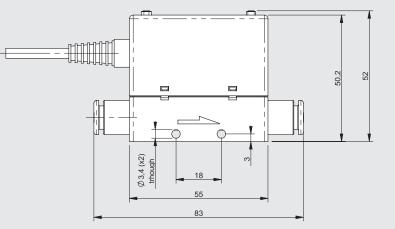


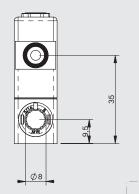
Multiple fixing on DIN bar with code bracket 90009A002 using the lateral holes Ø3.4 with M3 screws and nuts











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C6

 Code
 Description

 9000958A2
 Flowmeter FLUX 0 50L Ø8 PNP 4-20 mA 2 m

 9000958V2
 Flowmeter FLUX 0 50L Ø8 PNP 1-5V 2 m

 9000978A2
 Flowmeter FLUX 0 200L Ø8 PNP 4-20 mA 2 m

 9000978V2
 Flowmeter FLUX 0 200L Ø8 PNP 1-5V 2 m

ACCESSORIES



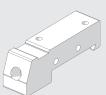
Code 90009A001

Code

Description Fixing bracket FLUX 0

Note: Comes complete with two 3x6 screws for plastic (max. torque 0.5 Nm)

CONNECTION BRACKETS ON BAR OMEGA (DIN EN 50022)



90009A002 Connection brackets on DIN bar FLUX 0

Description

Note: Comes complete with two 3x10 screws for plastic (max. torque 0.5 Nm)



NOTES	

FLUX 1 and FLUX 2 flowmeters are devices used to measure the flow rate of compressed air in various areas of a pneumatic system.

The FLUX 1 comes with an anodized aluminium body and 1/2" threaded inlets and outlets for flow rates of up to 2,000 NI/min, while the FLUX 2 has an anodized aluminium body and 1" threaded inlets and oulets for flow rates of up to 4,000 NI/min. They are both available in the versions with or without display, with an M12 connector for power supply and signal control. The versions with display also feature a pressure and temperature transducer that minimises measurement error within the operating temperature range thanks to the algorithm implemented in the device software.

Flow rate, pressure and temperature values as well as graphs of instantaneous and cumulative values are displayed.

The electrical power used to produce the measured flow is also calculated and displayed.

A digital output (configurable for flow rate, pressure or total consumption) and an analogue output (configurable for voltage or current) are available for both sizes. Versions with IO-Link interface with similar characteristics are also available.

The Wireless versions are able to communicate with Ethernet networks (MQTT communication) and mobile devices, such as smartphones and tablets with Bluetooth[®] connection through a dedicated APP.



Through the APP, in addition to viewing the measured quantities, it is possible to change all the settings of the flowmeters and view the measured values in real time.

All FLUX flowmeters can be supplied with voltage ranging from 12VDC and 24VDC and perform the functions of a flowmeter and flow switch; all versions with a display can also be used as a pressure gauge or pressure switch.

The inner air ducts of the flowmeters are designed to ensure precise flow readings at all times without creating pressure drops between instrument inlet and outlet.

TECHNICAL DATA		FLUX 1	FLUX 2
Measured flow range	Nl/min	0 to 2000	0 to 4000
Fluid		Compressed air free of any	v lubricants and inert gases
Fluid temperature	°C	0 tc	
Direction of flow		Unidire	ectional
Measuring method		The	rmal
Working pressure range	bar	0 tc	
	MPa	O te	
	psi	0 to	
Pressure drop	drop None		
Temperature range	°C	0 to	
Threaded ports		1/2"	1"
Degree of protection		IPe	
Weight	g	585	705
IO-Link supply voltage range	VDC	15 - 27 (with I	O-Link Master)
Current consumption	mA	80 mA (0	at 24VDC)
Power supply voltage range in the analogue version	VDC	12 -10%	24 +30%
Maximum admissible voltage	VDC	32	A
Current absorption	mA	min 50 -	max 120
DISPLAY			
Instant flow rate	Nl/min	0 to 2200	0 to 4400
Cumulative flow rate	N	999.99	99.999
	Nm ³	999	999
	Nft ³	35.32	0.000
Pressure	bar	0 to	0 10
Resolution	bar	ar 0.01	

C6

▲ IMPORTANT! Voltage greater than 32VDC will damage the system irreparably.

In versions with pressure transducer.

Incrinational Data FLOK 1 FLOK 2 PRECISION● Flow rate 0 to 100% of the fbl scale Measuring range from 0 to 20% of the fb - better than 21% of the fb - better than 22% of	TECHNICAL DATA		FLUX 1	FLUX 2
Flow rate 0 to 100% of the full scale Measuring range 0 to 100% of the fS - better than ±3% of the FS Single unit disploy accuracy from 0 to 20% of the FS - better than ±3% of the FS Pisploy accuracy of unit installed in an SY unit ▲ from 0 to 20% of the FS - better than ±3% of the FS Repeatability ±1% of the FS Repeatability ±1% of the FS Repeatability ±1% of the FS Version with pressure transducer Automatic compensation of fluid temperature from 0 to 50° Researce 0 to 10% Massuring range of the FS Massuring range of the FS Measuring range of the FS Pressure 0 to 10 Massuring range of the FS Output signal Analogue output powered Output signal 0 to 10 VDC or 0 to 5 VDC (I mox 20 mA) Analogue output accuracy ±2% of the roll scale Analogue output accuracy ±0.1% of the value read Diploy accuracy ±0.1% of the value read Diploy accuracy ±0.1% of the value read Massuring range n° 1 open callector output NC / NO - PNP / NPN Analogue output accuracy 1 Analogue output accuracy 1 Analogue output accuracy 1 Massuring range 0 t			FLOX I	FLUX 2
Measuring range 0 to 100% of the full scale Single unit display accuracy from 0 to 20% of the FS - better than ±1% of the FS Display accuracy of unit installed in an SY unit ▲ from 0 to 20% of the FS - better than ±2% of the FS Display accuracy of unit installed in an SY unit ▲ from 0 to 20% of the FS - better than ±2% of the FS Repeatability ±1% of the FS Temperature characteristic ±1% of the FS Version with pressure transducer Automatic compensation of fluid temperature from 0 to 50° Version with or pressure transducer Automatic compensation of fluid temperature from 0 to 50° Resuring range 0 to 10 Display accuracy Without compensation, between 0 and 15°C and between 35 and 50°C ±1.2 % of the FS every °C Pressure Without compensation, between 0 and 15°C and between 35 and 50°C ±1.2 % of the FS every °C Measuring range bor Display accuracy ±2% of the FS Analogue output pressure transducer Without compensation, between 0 and 15°C and between 35 and 50°C ±1.2 % of the FS every °C Analogue output powered 0 to 10 VDC or 0 to 5 VDC (I max 20 mA) Analogue output courrent 4 to 20 mA Analogue output accuracy 100 mA				
Single unit display accuracy from 0 to 2003 of the F3 - better than ±1% of the F3 Display accuracy of unit installed in an SY unit ▲ from 0 to 2003 of the F3 - better than ±1% of the F3 Repeatability from 0 to 2003 of the F3 - better than ±1% of the F3 Repeatability ±1% of the F3 Temperature characteristic Automatic compensation of fluid temperature from 0 to 50° Repeatability ±1% of the F3 Temperature characteristic Automatic compensation of fluid temperature from 0 to 50° Resouring range bar Measuring range bar Output signal 0 to 10 Display accuracy 0 to 10 VDC or 0 to 5 VDC (I max 20 mA) Cutput signal 0 to 10 VDC or 0 to 5 VDC (I max 20 mA) Analogue output current Analogue output current Analogue output current max Maximum current mA Min accumaleter loop rate 0 to 10 VDC or 0 to 5 VDC (I max 20 mA) Display accuracy ±0.1% of the rate Display accuracy ±0.1% of the rate Analogue output current mA Maximum current mA Min accumaleter loop rate 100 mA Resouring mode, if set on flow rate Level switch, Band switch, Yaelue switch, Yaelue switch, Yaelue switch, Yaelue switch, Send switch Min accumaleteris <t< td=""><td></td><td></td><td>0 - 1000/</td><td></td></t<>			0 - 1000/	
from 20% to 100% of the FS - better than ±3% of the FS Display accuracy of unit installed in an SY unit ▲ from 20% to 100% of the FS - better than ±2% of the FS Repectability ±1% of the FS Temperature characteristic ±1% of the FS Version without pressure transducer Automatic compensation of fluid temperature from 0 to 50° Between 0 and 15°C and between 35 and 50°C ±1.2 % of the FS every °C Pressure Automatic compensation, between 0 and 15°C and between 35 and 50°C ±1.2 % of the FS every °C Writhout pressure transducer Writhout compensation, between 0 and 15°C and between 35 and 50°C ±1.2 % of the FS every °C Pressure 0 to 10 Malague output ±2% of the FS Analogue output 0 to 10 VDC or 0 to 5 VDC (I max 20 mA) Output signal 0 to 10 VDC or 0 to 5 VDC (I max 20 mA) Analogue output accuracy ±0 in 0 VDC or 0 to 5 VDC (I max 20 mA) Analogue output accuracy ±0 in 0 VDC or 0 to 5 VDC (I max 20 mA) Maximum current mA Main accuracy maximum current Min. accumulated volume by pube (pulse width 100 msec) NI Nim ² Nim ² Nim ² Nim ² Short-circuit protection at output Nim ² Nim ² Nim ² DiGTAL INPUT ● n° 1 input for the reset of the consumption counters NO – PNP/NPN Nipe	0 0			
Display accuracy of unit installed in an SY unit ▲ from 0 to 20% of the FS - better tham ±2% of the FS Repeatability ±1% of the FS Temperature characteristic ±1% of the FS Version with pressure transducer Automatic compensation of fluid temperature from 0 to 50° Version with pressure transducer Without compensation of fluid temperature from 0 to 50° Pressure 0 to 10 Display accuracy ±2% of the FS Analogue output 0 to 10 Display accuracy ±2% of the FS Analogue output 0 to 10 VDC or 0 to 5 VDC (I max 20 mA) Cutput signal 0 to 10 VDC or 0 to 5 VDC (I max 20 mA) Analogue output accuracy ±0 20 mA Analogue output current 4 to 20 mA Analogue output accuracy ±0 1% of the value read Disk of the rade 100 mA Maximum current mA Maximum current mA Min accuralized witch, Band switch, Volue switch, Cyclic pulse 1 Maximum current mA Maximum current mA Min accurrentized witch, Band switch, Sond switch, Solue switch, Cyclic pulse Min accurulated wolune pulse (pulse with 100 msec) Ni	Single unit display accuracy		from 0 to 20% of the FS -	beffer than $\pm 1\%$ of the FS
from 20% to 100% of the FS - better than ±6% of the FS Repectability ±1% of the FS Temperature characteristic ±1% of the FS Version with pressure transducer Automatic compensation of fluid temperature from 0 to 50° Between 0 and 15°C and between 35 and 50°C ±0.6% of the FS every °C Without compensation, between 0 and 15°C and between 35 and 50°C ±1.2% of the FS every °C Pressure 0 to 10 Measuring range 0 to 10 Display accuracy ±2% of the FS Analogue output 0 to 10 VDC or 0 to 5 VDC (I mox 20 mA) Cutput signal 0 to 10 VDC or 0 to 5 VDC (I mox 20 mA) Analogue output current 4 to 20 mA Analogue output current 4 to 20 mA Analogue output current max Maximum current mA Residual vallage VDC Operating mode, if set on flow rate 100 mA Min, accumulated volume by pulse (pulse witch, 100 msec) NI NPf 1 Response mode, with pressure mode se				
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Temperature divorateristic Temperature divorate				
Automatic compensation of fluid temperature from 0 to 50° Between 0 and 15°C and between 35 and 50°C ± 0.6% of the FS every °C Without compensation, between 0 and 15°C and between 35 and 50°C ± 1.2% of the FS every °C Pressure 0 to 10 Macauring range bar Display accuracy ±2% of the FS Analogue output 0 to 10 Output signal 0 to 10 VDC or 0 to 5 VDC (I max 20 mA) Analogue output powered 0 to 10 VDC or 0 to 5 VDC (I max 20 mA) Analogue output accuracy ±0 to 10 VDC or 0 to 5 VDC (I max 20 mA) Analogue output accuracy ±0.1% of the value read Macauring many 0 to 10 VDC or 0 to 5 VDC (I max 20 mA) Analogue output accuracy ±0.1% of the value read Digital couracy ±0.1% of the value read Max load impedance 500 Ω 10 mA Residual valuege VDC Output ingreadonce about 1 KΩ 100 mA Residual valuege VDC Operating mode, if set on flow rate Level switch, Band switch, Cyclic pulse Min. accumulated volume by pulse (pulse width 100 msec) Ni Nim ⁴ 1 Response mode, with pressure mode seting Level switch, Band switch, Cyclic			±1% 0	f the FS
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Version without pressure transducer Without compensation, between 0 and 15°C and between 35 and 50°C ± 1.2 % of the FS every °C Pressure 0 to 10 Measuring range bar Display accuracy ±2% of the FS Analogue output ±2% of the FS Output signal 0 to 10 VDC or 0 to 5 VDC (I max 20 mA) Analogue output current 4 to 20 mA Analogue output accuracy ±0.1% of the value read Analogue output accuracy ±0.1% of the value read Digital CUIPUT n° 1 open collector output NC / NO · PNP / NPN Maximum current mA Residuel valuege VDC Operating mode, if set on flow rate 100 mA Nm ^a 1 Nm ^b 1 Response mode, with pressure mode setting Kelse Hysteresis Short-circuit protection ot output Short-circuit protection ot output n° 1 input for the reset of the consumption counters NO – PNP/NPN Type of input n° 1 input for the reset of the consumption counters NO – PNP/NPN	Version with pressure transducer		Automatic compensation of fli	uid temperature from 0 to 50°
Pressure 0 0 10 0 0 10 0 10 <t< td=""><td></td><td></td><td></td><td></td></t<>				
Measuring range bar 0 to 10 Display accuracy ±2% of the FS Analogue output 0 to 10 VDC or 0 to 5 VDC (I max 20 mA) Output signal 0 to 10 VDC or 0 to 5 VDC (I max 20 mA) Analogue output powered 0 to 10 VDC or 0 to 5 VDC (I max 20 mA) Analogue output current 4 to 20 mA Analogue output accuracy ±0.1% of the value read DIGITAL OUTPUT Max. load impedance 500 Ω Analogue output accuracy ±0.1% of the value read DIGITAL OUTPUT n° 1 open collector output NC / NO - PNP / NPN Maximum current mA Residual valuage VDC Operating mode, if set on flow rate Level switch, Band switch, Value swit	Version without pressure transducer		Without compensation, between 0 and 15°C and	between 35 and 50°C ±1.2 % of the FS every °C
Measuring range bar 0 to 10 Display accuracy ±2% of the FS Analogue output 0 to 10 VDC or 0 to 5 VDC (I max 20 mA) Output signal 0 to 10 VDC or 0 to 5 VDC (I max 20 mA) Analogue output powered 0 to 10 VDC or 0 to 5 VDC (I max 20 mA) Analogue output current 4 to 20 mA Analogue output accuracy ±0.1% of the value read DIGITAL OUTPUT Max. load impedance 500 Ω Analogue output accuracy ±0.1% of the value read DIGITAL OUTPUT n° 1 open collector output NC / NO - PNP / NPN Maximum current mA Residual valuage VDC Operating mode, if set on flow rate Level switch, Band switch, Value swit				
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Analogue output Output signal Analogue output powered Analogue output powered Analogue output current Analogue output accuracy DIGITAL OUTPUT Max. load impedance 500 Ω ±0.1% of the value read DIGITAL OUTPUT Maxinum current mA 100 mA Residual voltage VDC 20 mW (with load) Operating mode, if set on flow rate Min. accumulated volume by pulse (pulse width 100 msec) Nm ³ 1 Nm ³ 1 Nm ⁴ 1 Npsteresis Short-circuit protection at output Short-circuit protection at output Net of input n° 1 input for the reset of the consumption counters NO - PNP/NPN Type of input		bar		
Output signal Analogue output powered 0 to 10 VDC or 0 to 5 VDC (I max 20 mA) Analogue output current 4 to 20 mA Analogue output current 4 to 20 mA Max. load impedance 500 Ω Analogue output accuracy ±0.1% of the value read DIGITAL OUTPUT n° 1 open collector output NC / NO - PNP / NPN Maximum current mA Residual voltage VDC Querating mode, if set on flow rate Level switch, Band switch, Value switch, Cyclic pulse Min. accumulated volume by pulse (pulse width 100 msec) NI Nm ³ 1 Response mode, with pressure mode setting Level switch, Band switch Hysteresis Adjustable Short-circuit protection at output Yes DIGITAL INPUT ◆ n° 1 input for the reset of the consumption counters NO – PNP/NPN	Display accuracy		±2% o	t the FS
Output signal Analogue output powered 0 to 10 VDC or 0 to 5 VDC (I max 20 mA) Analogue output current 4 to 20 mA Analogue output current 4 to 20 mA Max. load impedance 500 Ω Analogue output accuracy ±0.1% of the value read DIGITAL OUTPUT n° 1 open collector output NC / NO - PNP / NPN Maximum current mA Residual voltage VDC Operating mode, if set on flow rate Level switch, Band switch, Value switch, Cyclic pulse Min. accumulated volume by pulse (pulse width 100 msec) NI Nm ³ 1 Response mode, with pressure mode setting Level switch, Band switch Hysteresis Short-circuit protection at output Short-circuit protection at output Yes DIGITAL INPUT ◆ n° 1 input for the reset of the consumption counters NO – PNP/NPN				
Analogue output powered 0 to 10 VDC or 0 to 5 VDC (I max 20 mA) Output impedance about 1 kΩ Analogue output current 4 to 20 mA Max. load impedance 500 Ω Analogue output accuracy ±0.1% of the value read DIGITAL OUTPUT m ^o 1 open collector output NC / NO - PNP / NPN Maximum current mA Residual voltage VDC Operating mode, if set on flow rate Level switch, Band switch, YoLic pulse width 100 msec) Nm ^a 10 Nm ^a 1 Response mode, with pressure mode setting Level switch, Band switch Hysteresis Adjustable Short-circuit protection at output Yes DIGITAL INPUT ◆ n° 1 input for the reset of the consumption counters NO – PNP/NPN				
Output impedance about 1 kΩ Analogue output current 4 to 20 mA Max. load impedance 500 Ω Analogue output accuracy DIGITAL OUTPUT Maximum current mA 100 mA Residual voltage VDC Operating mode, if set on flow rate Min. accumulated volume by pulse (pulse width 100 msec) Nfr³ 10 20 Nfr³ 1 Response mode, with pressure mode setting Hysteresis Short-circuit protection at output Nfr³ n° 1 input for the reset of the consumption counters NO – PNP/NPN Vpe of input				
Analogue output current 4 to 20 mA Max. load impedance 500 Ω Analogue output accuracy ±0.1% of the value read DIGITAL OUTPUT n° 1 open collector output NC / NO - PNP / NPN Maximum current mA Residual voltage VDC Operating mode, if set on flow rate Level switch, Band switch, Value switch, Cyclic pulse Min. accumulated volume by pulse (pulse width 100 msec) NI Nm³ 1 Response mode, with pressure mode setting Level switch, Band switch, Band switch Hysteresis Adjustable Short-circuit protection at output Yes DIGITAL INPUT ◆ n° 1 input for the reset of the consumption counters NO – PNP/NPN Type of input Voltage12 - 10% 24 + 30%	Analogue output powered			
Analogue output accuracy Max. load impedance 500 Ω DIGITAL OUTPUT ±0.1% of the value read Maximum current mA Residual voltage VDC Operating mode, if set on flow rate Level switch, Band switch, Value switch, Cyclic pulse Min. accumulated volume by pulse (pulse width 100 msec) NI Nm ^a 1 Response mode, with pressure mode setting Level switch, Band switch Hysteresis Adjustable Short-circuit protection at output Yes DIGITAL INPUT ◆ n° 1 input for the reset of the consumption counters NO - PNP/NPN Type of input Voltage 12-10% 24 +30%				
Analogue output accuracy ±0.1% of the value read DIGITAL OUTPUT n° 1 open collector output NC / NO - PNP / NPN Maximum current mA Residual voltage VDC Operating mode, if set on flow rate Level switch, Band switch, Value switch, Cyclic pulse Min. accumulated volume by pulse (pulse width 100 msec) NI Nm³ 1 Response mode, with pressure mode setting Level switch, Band switch, Band switch Hysteresis Level switch, Band switch Short-circuit protection at output Yes DIGITAL INPUT ◆ n° 1 input for the reset of the consumption counters NO – PNP/NPN Type of input Voltage 12 - 10% 24 + 30%	Analogue output current	t		
DIGITAL OUTPUT n° 1 open collector output NC / NO - PNP / NPN Maximum current mA Residual voltage VDC Operating mode, if set on flow rate Level switch, Band switch, Value switch, Cyclic pulse Min. accumulated volume by pulse (pulse width 100 msec) NI Nm³ 1 Response mode, with pressure mode setting Level switch, Band switch Hysteresis Adjustable Short-circuit protection at output Yes DIGITAL INPUT ◆ n° 1 input for the reset of the consumption counters NO – PNP/NPN Type of input Voltage 12 - 10%				
Maximum current mA 100 mA Residual voltage VDC 20 mV (with load) Operating mode, if set on flow rate Level switch, Band switch, Value switch, Cyclic pulse Min. accumulated volume by pulse (pulse width 100 msec) NI 10 20 Nm³ 10 10 10 Response mode, with pressure mode setting Level switch, Band switch Adjustable Hysteresis Adjustable Yes Short-circuit protection at output Yes Yes DIGITAL INPUT ◆ n° 1 input for the reset of the consumption counters NO – PNP/NPN Voltage12 -10% 24 +30%	Analogue output accuracy		±0.1% of th	e value read
Maximum current mA 100 mA Residual voltage VDC 20 mV (with load) Operating mode, if set on flow rate Level switch, Band switch, Value switch, Cyclic pulse Min. accumulated volume by pulse (pulse width 100 msec) NI 10 20 Nm³ 10 10 10 Response mode, with pressure mode setting Level switch, Band switch Adjustable Hysteresis Adjustable Yes Short-circuit protection at output Yes Yes DIGITAL INPUT ◆ n° 1 input for the reset of the consumption counters NO – PNP/NPN Voltage12 -10% 24 +30%				
Residual voltage VDC 20 mV (with load) Operating mode, if set on flow rate Level switch, Band switch, Value switch, Cyclic pulse Min. accumulated volume by pulse (pulse width 100 msec) NI 10 20 Nm³ 1 20 1 Response mode, with pressure mode setting Level switch, Band switch, Band switch 4 Hysteresis Adjustable 5 Short-circuit protection at output Yes Yes DIGITAL INPUT ◆ n° 1 input for the reset of the consumption counters NO – PNP/NPN Yoltage 12 - 10% Type of input Voltage 12 - 10% 24 + 30%				
Operating mode, if set on flow rate Level switch, Band switch, Value switch, Cyclic pulse Min. accumulated volume by pulse (pulse width 100 msec) NI Nm³ 1 Response mode, with pressure mode setting Level switch, Band switch Hysteresis Adjustable Short-circuit protection at output Yes DIGITAL INPUT ◆ n° 1 input for the reset of the consumption counters NO – PNP/NPN Type of input Voltage12 -10% 24 +30%				
Min. accumulated volume by pulse (pulse width 100 msec) NI 10 20 Nm³ 1 1 Response mode, with pressure mode setting Level switch, Band switch 1 Hysteresis Adjustable 1 Short-circuit protection at output Yes Yes DIGITAL INPUT ◆ n° 1 input for the reset of the consumption counters NO – PNP/NPN Type of input Voltage 12 - 10% 24 + 30%		VDC		
Nm³ 1 Nfi³ 1 Response mode, with pressure mode setting Level switch, Band switch Hysteresis Adjustable Short-circuit protection at output Yes DIGITAL INPUT ◆ n° 1 input for the reset of the consumption counters NO - PNP/NPN Type of input Voltage 12 - 10% 24 + 30%	Operating mode, it set on flow rate	NI		
Nff3 1 Response mode, with pressure mode setting Level switch, Band switch Hysteresis Adjustable Short-circuit protection at output Yes DIGITAL INPUT ◆ n° 1 input for the reset of the consumption counters NO – PNP/NPN Type of input Voltage12 -10% 24 +30%	Min. accumulated volume by pulse (pulse width 100 msec)		10	20
Response mode, with pressure mode setting Level switch, Band switch Hysteresis Adjustable Short-circuit protection at output Yes DIGITAL INPUT ◆ n° 1 input for the reset of the consumption counters NO - PNP/NPN Type of input Voltage 12 - 10% 24 + 30%				
Hysteresis Adjustable Short-circuit protection at output Yes DIGITAL INPUT ◆ n° 1 input for the reset of the consumption counters NO - PNP/NPN Type of input Voltage12 - 10% 24 + 30%		Nft ³	1 1 1	
Short-circuit protection at output Yes DIGITAL INPUT ◆ n° 1 input for the reset of the consumption counters NO - PNP/NPN Type of input Voltage12 - 10% 24 + 30%				
DIGITAL INPUT ◆ n° 1 input for the reset of the consumption counters NO - PNP/NPN Type of input Voltage12 - 10% 24 + 30%				
Type of input Voltage12 -10% 24 +30%	Short-circuit protection at output		Y	es
Type of input Voltage12 -10% 24 +30%				
Activation time min L sec	/1 1		•	
	Activation time		min	I sec

Accuracy referred to compressed air gas, at a pressure of 5 bar and a fluid temperature of 25°C ±10°C.

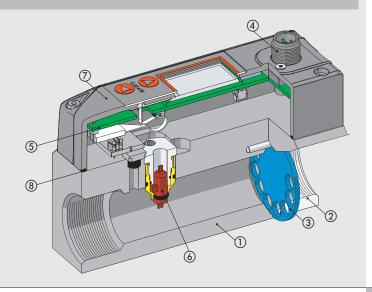
▲ In order to guarantee the stated measurement accuracy and to prevent lubricant residues from damaging the measurement sensor, a filter has to be mounted at the FLUX inlet. If the device is fitted with a Syntesi, filter, the SYN filter parameter must be enabled in the system menu to guarantee the stated accuracy (function available only for the version with display).

• Version without display: the digital input selects the type of analogue output from 0 to 10 V and 4 to 20 mA.

COMPONENTS

- BODY: anodized aluminium
 INLET BUSHING: anodized aluminium
 FLOW RECTIFIER DISC: passivated aluminium
 CONNECTOR M12: technopolymer
 ELECTRONIC BOARD
 FLOW SENSOR
 COVER: technopolymer
 GASKETS: NRP

- (8) GASKETS: NBR



WIRING DIAGRAMS

Wiring diagram, analogue version

M12 male connector, A encoding

	Pin	Function description	Lead colour
	1	+24VDC power supply	Brown
4	2	Digital output	White
	3	0VDC power supply	Blue
	4	Digital input	Black
	5	Analogue output	Gray

Wiring diagram, IO-Link version

M12 male connector, A encoding

$3 \bigcirc 4 \qquad 2$ Port Class A $1 = L+$ $2 = NC$ $3 = L-$ $4 \qquad C/O$	1 = L+	Pin	Signal	Description of Port Class A	Lead colour
		1	L+	+24VDC power supply	Brown
	$3 = L^{-1}$ 4 = C/Q	2	NC	/	White
	4 = C/Q 5 = NC	3	L-	0VDC power supply	Blue
5-110	5-140	4	C/Q	IO-Link communication	Black
		5	NC	/	Gray

WIRELESS CONNECTION

With the Wireless versions of FLUX 1 and 2, you can establish a connection to at Wi-Fi® network via an access point or gateway to monitor and collect all the measured gas values.

Connection to a MQTT broker via an access point

MQTT

3



17 'ower [kw] 0.10 Flow [kg/min] 0.02

2.05 perature [*C] 26.3 Broker MQTT

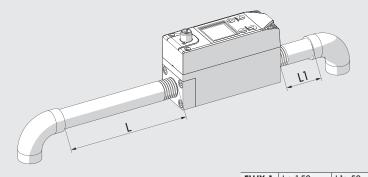


The Metal Work FluxUp App can be used for connection via Bluetooth® to Metal Work flow meters in the FLUX 1 and 2 series with a wireless interface, from Android® smartphone and iOS®. With the Metal Work FluxUp App, you can view all data recorded by the FLUX and set all operating parameters in real time.

PNEUMATIC CONNECTION

To connect the inlet side, use a straight pipe* at least 150 mm-long for FLUX 1 and at least 200 mm-long for FLUX 2. If straight piping is not installed, the accuracy may vary from what is stated.

* Straight pipe: the pipe must be straight with a constant cross-section.



 FLUX 1
 L ≥150 mm
 L1≥50 mm

 FLUX 2
 L ≥200 mm
 L1≥50 mm

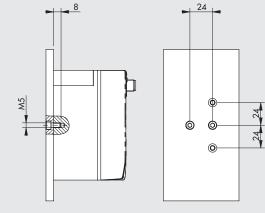


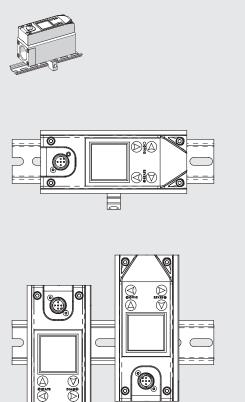
FIXING OPTIONS

Wall mounting by means M5 screws.



NOTES

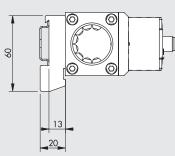




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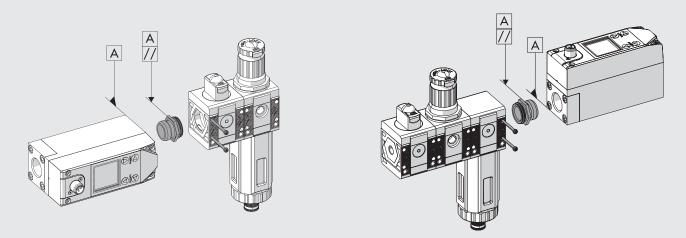
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DIN rail mounting with bracket code 900099A001, using the M5x14 screws provided.



UNITS

ASSEMBLY DIAGRAM WITH SYNTESI

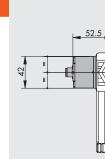


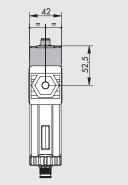
- 1) Tighten the connection bushing on the flowmeter until it is flush (it is advisable to use sealant on the male thread of the bushing to ensure a perfect seal).
- 2) Unscrew the bushing slightly until two surfaces of the hexagon are parallel to the body of FLUX.
 3) Insert the bushing into the Syntesi_® unit.
- 4) Tighten the two self-tapping screws in the Syntesi_® unit to a torque of 0.4 Nm for size 1 and torque 2.5 Nm for size 2.

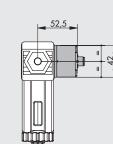
FLUX 1 + SYNTESI_® 1



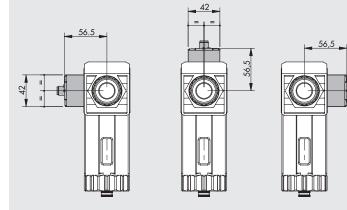
UNITS

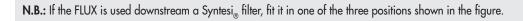






FLUX 2 + SYNTESI_® 2



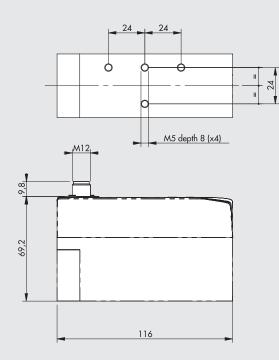


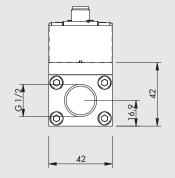


DIMENSIONS AND ORDERING CODES



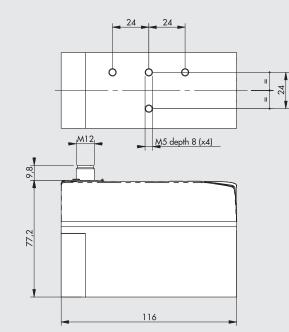


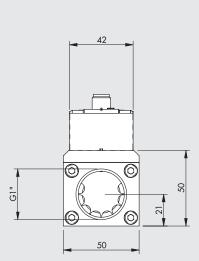




FLUX 2





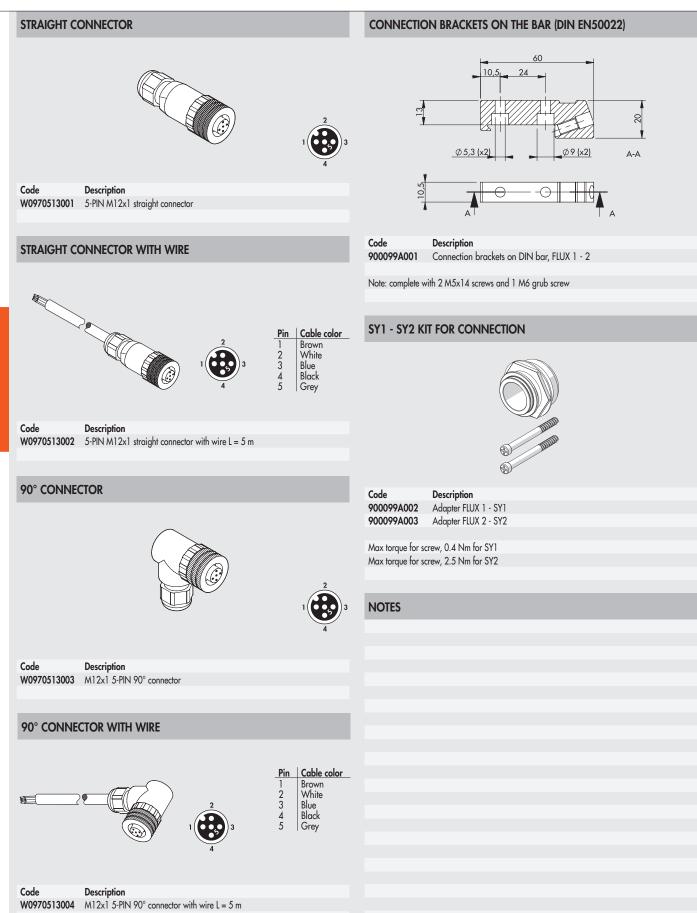


Symbol	Code	Description
	9000991000	Flowmeter FLUX 1, coupling 1/2", analog output 0-10V 4-20 mA
	9000991200	Flowmeter FLUX 1, coupling 1/2", IO-Link
	9000992000	Flowmeter FLUX 2, coupling 1", analog output 0-10V 4-20 mA
	9000992200	Flowmeter FLUX 2, coupling 1", IO-Link
	9000991510	Flowmeter FLUX 1, coupling 1/2", digital output PNP 0-10V 4-20 mA, with display and pressure sensor
	9000991511	Flowmeter FLUX 1, coupling 1/2", digital output PNP 0-10V 4-20 mA, with display, pressure sensor and Wi-Fi®
	9000991610	Flowmeter FLUX 1, coupling 1/2", IO-Link with display and pressure sensor
	9000991611	Flowmeter FLUX 1, coupling 1/2", IO-Link with display, pressure sensor and Wi-Fi®
	9000992510	Flowmeter FLUX 2, coupling 1", digital output PNP 0-10V 4-20 mA, with display and pressure sensor
	9000992511	Flowmeter FLUX 2, coupling 1", digital output PNP 0-10V 4-20 mA, with display, pressure sensor and Wi-Fi®
	9000992610	Flowmeter FLUX 2, coupling 1", IO-Link with display and pressure sensor
	9000992611	Flowmeter FLUX 2, coupling 1", IO-Link with display, pressure sensor and Wi-Fi®

UNITS

FLOWMETER SERIES FLUX 1 - 2

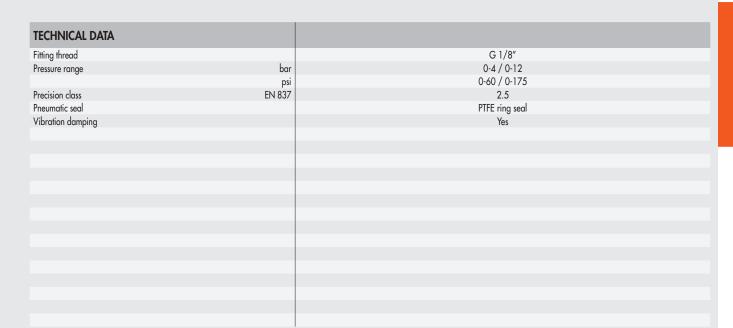
ACCESSORIES



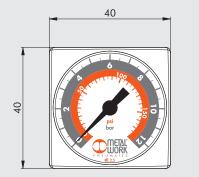
SQUARE DIAL PRESSURE GAUGE

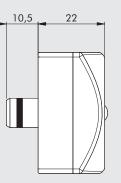
A compact pressure gauge with a square dial to go with air treatment units.

A PTFE ring seal mounted on the 1/8" thread of the fitting ensures a perfect pneumatic seal. To mount it, screw the gauge in as far as it will go, then loosen enough to align the dial. A sealant is not required. The pressure gauge has a neck to dampen pressure vibration and absorb water hammer. This improves overall reliability and guarantees longer life.



DIMENSIONS





ORDERING CODES

Code	Description
9700109	M 40x40 1/8 04
9700110	M 40x40 1/8 012

UNITS