ENGLISH ENGLISH ENGLISH B.4 PACKAGE CONTENTS/PRE-INSPECTION **B.3 WARNINGS** INDEX The following warnings are for the setup, use, grounding, and repair of FOREWORD To open the packaging, use a pair of scissors or a cutter, GENERAL WARNINGS this equipment. The exclamation point symbol alerts you to a general being careful not to damage the dispensing system or its SAFETY INSTRUCTIONS warning and the hazard symbols refer to procedure-specific risks. When components SAFETY WARNINGS EQUIPMENT MISUSE HAZARD WARNING these symbols appear in the body of this manual or on warning labels, B.2 FIRST AID RULES Check that the data on the plate correspond to the refer back to these Warnings. Product-specific hazard symbols and WARNINGS desired specifications. In the event of any anomaly, B.3 warnings not covered in this section may apear thoughout the body of PACKAGE CONTENTS/PRE-INSPECTION B.4 contact the supplier immediately, indicating the this manual where applicable. BECOMING ACQUAINTED WITH THE DEF TURBINE METER nature of the defects. Do not use equipment which COMPATIBLE LIQUIDS '\\ WARNING C.1 you suspect might not be safe. C.2 DISPLAY LCD NOTE n the event that one or more of the components FIRE AND When flammable Use equipment only in will vent C.3 DISPLAY POSITIONING described below are missing from inside the EXPLOSION fluids are present USERS BUTTONS lated area. C.4 package, please contact your Graco distributor **OPERATING MODES** Eliminate all ignition sources, such in the work area, INSTALLATION such as gasoline and as cigarettes and portable electric DAILY USE windshield wiper <u>lamps.</u> DISPENSING IN NORMAL MODE fluid, be aware that Keep work area free of debris, includ-F.1 PARTIAL RESET (NORMAL MODE) F.1.1 flammable fumes can ing rags and spilled or open contain-**BECOMING ACQUAINTED WITH** RESETTING THE RESET TOTAL ignite or explode. To ers of solvent and gasoline. F.1.2 THE DEF TURBINE METER F.2 DISPENSING WITH FLOW RATE MODE DISPLAY help prevent fire and Do not plug or unplug power cords PARTIAL RESET (FLOW RATE MODE) F.2.1 or turn lights on or off when flam-FOREWORD Electronic digital meter featuring a turbine measurement explosion: CALIBRATION G mable fumes are present. system, designed for precise measuring of DEF and water DEFINITIONS G.1 Ground all equipment in the work METER – with LCD display and calibration buttons CALIBRATION MODE G.2 DISPLAY OF CURRENT CALIBRATION FACTOR G.2.1 Stop operation immediately if static AND RESTORING FACTORY FACTOR. sparking occurs or if you feel a shock. G.2.2 IN FIELD CALIBRATION Do not use equipment until you G.2.2.1 IN-FIELD CALIBRATION PROCEDURE C.1 COMPATIBLE LIQUIDS identify and correct the problem. G.2.3 DIRECT MODIFICATION OF K FACTOR Turbine The turbine is placed inside a hole through the body of Keep a working fire extinguisher in METER CONFIGURATION the meter, fitted with M-M threaded inlet and outlet. The measure the work area. MAINTENANCE supplied F-F bushing enables several combinations of MALFUNCTIONS EQUIP-Misuse can cause Do not operate the unit when fathreads. the meter has 2 rubber protections, designed to DISPOSAL system MFNT death or serious tigued or under the influence o act as gaskets too. OVERALL DIMENSIONS EC/UKCA-DECLARATION OF CONFORMITY MISUSE drugs or alcohol. The liquids compatible with the meter: injury Do not exceed the maximum work-P.N. 127663 **TECHNICAL DATA** <u>Aus 32 (D.E.F.,</u> Ad-Blue) WARRANTY ing pressure or temperature rating of the lowest rated system compo-Main components: K24 Meter nent. See Technical Data in all equip-LCD display ment manuals. Α **GENERAL WARNINGS RESET key** Use fluids and solvents that are li CAL key To ensure operator safety and to protect the Importan compatible with equipment wet-4 F-F bushing pump from potential damage, workers must be precaution ted parts. See Technical Data in all fully acquainted with this instruction manual beequipment manuals. Read fluid and fore performing any operation. solvent manufacturer's warnings. ollowing symbols will be used throughout Symbols For complete information about used in the the manual to highlight safety information and your material, request MSDS from precautions of particular importance: distributor or retailer. Do not leave the work area while WARNING equipment is energized or under This symbol indicates safe working practices for pressure operators and/or potentially exposed persons. Turn off all equipment when equipment is not in use. C.2 DISPLAY LCD NOTICE Check equipment daily. Repair or re-FOREWORD The "LCD" of the METER features two numerical registers This symbol indicates that there is risk of damage place worn or damaged parts immeto the equipment and/or its components. diately with genuine manufacturer's the applicable function so requires. replacement parts only. Partial register (5 figures with 6 NOTE Do not alter or modify equipment. moving comma FROM 0.1 to TAL / Reset TOTAL) Alterations or modifications may This symbol indicates useful information. 99999) indicating the volume This manual should be complete and legible Manual pres void agency approvals and create dispensed since the reset butthroughout. It should remain available to end ussafety hazards. ervatio ton was last pressed ers and specialist installation and maintenance Make sure all equipment is rated and Indication of battery charge technicians for consultation at any time. approved for the environment in Reproduc All reproduction rights are reserved by Graco Inc. which you are using it. Gal=Gallons Use equipment only for it intended The text cannot be reprinted without written pertion rights Indication of calibration mode 8 purpose. Call your distributor for inmissior Totals register (6 figures with formation. moving comma FROM 0.1 to ment of Partial: Qts=Quarts Route hoses and cables away from 999999), that can indicate two Pts=Pints traffic areas, sharp edges, moving types of Total: L=Litre parts, and hot surfaces. SAFETY INSTRUCTIONS В Do not kink or over bend hoses or

B.1 SAFETY WARNINGS Mains - pre-WARNING liminary EQUIPMENT MISUSE HAZARD checks before You must avoid any contact between the electriinstallation cal power supply and the fluid that needs to be dispensed. Before any checks or maintenance work are carried control out, disconnect the power source.

B.2 FIRST AID RULES

Contact with the product

In the event of problems developing following EYE/SKIN CONTACT, INHALATION or INGESTION of the treated product, please refer to the SAFETY DATA SHEET of the fluid handled.



Hazard

or Fumes can cause serious

swallowed

injury or death if

Toxic Fluid Toxic fluids or fumes Read MSDS's to know the specific hazards of the fluids you are using. Store hazardous fluid in approve splashed in the eyes containers, and dispose of it accordor on skin, inhaled, or ing to applicable guidelines. Prolonged contact with the treated product may cause skin irritation: al ways wear protective gloves during dispensing.

use hoses to pull equipment.

work area.

regulations

Keep children and animals away from

Comply with all applicable safety

Personal Wear appropriate This equipment includes but is not Equipment when in the work Protective eyewear, safety shoes area to help prevent close-fitting clothing and hearing serious injury, includ- protection. ing eye injury, hear- Respirators, protective clothing, and

ing loss, inhalation gloves as recommended by the fluid of toxic fumes, and and solvent manufacturer.

> Wear protective equipment that is suited to the operations that need to be performed and resistant to cleaning products.



C.4 USERS BUTTONS

FOREWORD

FUNCTIONS

PERFORMED

SECONDARY

FUNCTIONS

SHORT PRES-

SURE OF CAL

KEY

modes

LEGEND

KEY

CAL

MODES

MAIN

The METER features two buttons (RESET and CAL) which individually perform two main functions and, together, other secondary functions. for the RESET key, resetting the partial register and Reset Total

- for the CAL key, entering instrument calibration

Used together, the two keys permit entering configu ration mode where the desired unit of measurement



D OPERATING MODES

OPERATING The user can choose between two different operating

The meter features a non-volatile memory for storing the dispensing data, even in the event of a complete power break for long periods.

- The measurement electronics and the LCD display are fitted in the top part of the meter which remains isolated from the fluid-bath measurement chamber and sealed from the outside by means of a cover.
 - Normal Mode: Mode with display of Partial and Total dispensed quantities
 - Flow Rate Mode: Mode with display of Flow Rate, as well as Partial dispensed quantity.

INSTALLATION

FOREWORD The meter features a threaded, inlet and outlet (1" BSP male and female that can be combined together). It has been designed to be easily installed in any position: fixed in-line or mobile on a dispensing nozzle. In order to improve the life of the turbine, it is recommended to fit a strainer before the meter itself

An F/F coupling, complete with its gasket, is supplied for installations on male couplings. Always screw the side with gasket on the meter. t is up to the installer to use another gasket on the other side of the coupling. The gasket used has the following characteristics

flat seal id=24, od=35.5, thick=2 Material: NBR

For installations on system, position the meter so that the battery housing can be easily reached.

DAILY USE

The only operations that need to be done for daily use are partial and/or resettable total register resetting. The user should use only the dispensing system of the meter. Occasionally the meter may need to be configured or calibrated. To do so, please refer to the

relevant sections of this manual. Below are the two typical normal operation displays. One display page shows the partial and reset total registers. The other shows the partial and general total. Switchover from resettable total to general total display is automatic and tied to phases and times that are in factory set



6 digits are available for Totals, plus two icons x 10 / x100. The increment sequence is the follow-

0.0 -> 99999.9 -> 999999 -> 100000 x 10 -> 999999 x 10 ->100000 x 100 -> 999999 x 100

count is made, the partial and resettable total are dis-

played at the same time (reset total). Should one of the keys be accidentally pressed during dispensing, this will have no effect.

A few seconds after dispensing has ended, on the lower register, the display switches from resettable total to general total: the word reset above the word total disappears, and the reset total is replaced by the general total. This situation is called standby and remains stable



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12.345

0.000

(.0.0

12,345

12.5

(23412.3 TOTAL G

2345.61 BAL

TOTAL G

F.1.2 RESETTING THE RESET TOTAL

The reset total resetting operation can only be performed after resetting the partial register. The 0.000 reset total can in fact be reset by pressing the rese 23412.3 TOTAL GA key at length while the display screen shows rese total as on the following display page: Schematically, the steps to be taken are:

- 1 Wait for the display to show normal standby display page (with total only displayed) Press the reset key quickly
- 3 The meter starts to reset the partial 4 While the display page showing the reset total
- is displayed Press the reset key again for at least 1 second
- The display screen again shows all the segments of the display followed by all the switched-off segments and finally shows the display page where the reset Reset Total is shown

F.2 DISPENSING WITH FLOW RATE MODE DISPLAY

It is possible to dispense fluids, displaying at the same time:

- 1 the dispensed partial
- 2 the Flow Rate in [Partial Unit / minute] as
- shown on the following display page: Procedure for entering this mode
- wait for the Remote Display to go to Standby,
- meaning the display screen shows Total only
- quickly press the CAL key
- 3 Start dispensing

NOTE

The flow rate is updated every 0.7 seconds. Consequently, the display could be relatively unstable at lower flow rates. The higher the flow rate, the more stable the displayed value.

The flow rate is measured with reference to the unit of measurement of the Partial. For this reason, in case of the unit of measurement of the Partial and Total being different, as in the example shown below, it should be remembered that the indicated flow rate relates to the unit of measurement of the partial. In the example shown, the flow rate is expressed in Qts/min.



The word "Gal" remaining alongside the flow rate refers to the register of the Totals (Reset or NON Reset) which are again displayed when exiting from the flow rate reading mode.

To return to "Normal" mode, press the CAL key again. If one of the two keys RESET or CAL is accidentally pressed during the count, this will have no effect.

Even though in this mode they are not displayed, ooth the Reset Total and the General Total (Total) crease. Their value can be checked after dispensing has terminated, returning to "Normal" mode, by quickly pressing CAL.

F.2.1 PARTIAL RESET (FLOW RATE MODE)

	-
To reset the Partial Register, finish dispensing and wait for the Remote Display to show a Flow Rate of 0.0 as indicated in the illustration then quickly press RESET	

G CALIBRATION

When operating close to extreme use or flow rate conditions (close to minimum or maximum acceptable values), an in-field calibration may be required to suit the real conditions in which the meter is required to operate.



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fluid units.

operating conditions:

trical pulses received, to transform these into measured

Factory-set default factor. It is equal to 1,000. This cali-

bration factor ensures utmost precision in the following

G.2.1 DISPLAY OF CURRENT CALIBRATION FACTOR AND RESTORING FACTORY FACTOR.



are displayed.

After the restart cycle,

the K24 uses the cali

bration factor that has

just been confirmed When the Factory Factor is confirmed, the old User factor is deleted from the memory

ELECTRONIC TURBINE

METER FOR DIESEL EXHAUST

Important Safety Instructions Read all warnings and instructions in this manual. Save these instructions

PROVEN QUALITY. LEADING TECHNOLOGY.





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G.2.2 IN FIELD CALIBRATION

FOREWORD This procedure calls for the fluid to be dispensed into a graduated sample container in real operating conditions (flow rate, viscosity, etc.) requiring maximum precisior For correct meter calibration, it is most important

NOTE

- 1 When the Factory Factor is confirmed, the old User fac-
- tor is deleted from the memory **2** use a precise Sample Container with a capacity of not less than 5 litres, featuring an accurate graduated indi-
- 3 ensure calibration dispensing is done at a constant flow rate equivalent to that of normal use, until the container is full:
- 4 Not reduce the flow rate to reach the graduated area of the container during the final dispensing stage (the correct method during the final stages of sample container filling consists in making short top-ups at normal operation flow rate);
- **5** after dispensing, wait a few minutes to make sure any air bubbles are eliminated from the sample container; only read the Real value at the end of this stage, during which the level in the container could drop.
- 6 Carefully follow the procedure indicated below.

G.2.2.1 IN-FIELD CALIBRATION PROCEDURE



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т	MODIFICATION OF	1

G.2.3 DIRECT MODIFICATION OF K FACTOR

If normal Meter operation shows a mean percentage error, this can be corrected by applying to the currently used calibration factor a correction of the same percentage. In this case, the percentage correction of the USER K FACTOR must be calculated by the operator in the following way



Example: Error percentage found: E% - 0.9 %

URRENT calibration factor: 1.000

ACTI

New USER K FACTOR: 1.000 * [(100 - (-0.9))/100] = 1.000 * [(100 +(0.9)/100] = 1.009

If the Meter indicates less than the real dispensed value (negative error) the new calibration factor must be higher than the old one as shown in the example. The opposite applies if the Meter shows more than the real dispensed value (positive error).

N		DISPLAY
	NONE METER in Standby.	12,345 L 13456 ^{total} L
	LONG CAL KEY KEYING Meter enters calibration mode, shows "CAL" and displays the calibration factor being used instead of the partial. The words "Fact" and "User" indicate which of the two factors (factory or user) is currently being used.	1.000 Cal FRCT (USER)
SET SET ET	LONG RESET KEY KEYING The Meter shows "CAL" and the zero partial total. Meter is ready to perform in-field calibration by dispensing – see previous paragraph.	1.000 L Cal FIELD
set set ret	LONG RESET KEY KEYING We now go on to Direct change of the calibration factor: the word "Direct" appears together with the Currently Used calibration factor. In the bottom left part of the display, an arrow appears (upwards or downwards) defining the direction (increase or decrease) of change of the displayed value when subsequent operations 5 or 6 are performed.	1.000 L Cal▲ DIRECT
ser	SHORT RESET KEY KEYING Changes the direction of the arrow. The operation can be repeated to alternate the direction of the arrow.	1.000 Cal V DIRECT
	SHORT/LONG CAL KEY KEYING The indicated value changes in the direction indicated by the arrow - one unit for every short CAL key keying - continually if the CAL key is kept pressed. The speed increase rises by keeping the key pressed. If the desired value is exceeded, repeat the operations from point (5).	1.003 L Cal ^A DIRECT
SET SET ET	LONG RESET KEY KEYING The Meter is informed that the calibration procedure is finished. Before performing this operation, make sure the INDICATED value is that required.	L Cal END
	NO OPERATION At the end of the calculation, the new USER K FACTOR is shown for a few seconds, after which the restart cycle is repeated to finally achieve standby condition. IMPORTANT: From now on, the indicated factor will become the calibration factor used by the Meter and will continue to remain such even after a battery change	1.003 L cai END
	NO OPERATION The Meter stores the new work calibration factor and is ready to begin dispensing, using the USER K FACTOR that has just been changed.	0.000 L 13456 ^{total} L

METER CONFIGURATION

The METER feature a menu with which the user can select the main measurement unit, Quarts (Qts), Pints (Pts), Litres (Lit), Gallons (Gal); The combination of the unit of measurement of the Partial register and that of the Totals is predefined according to the following table:

Combination no	Unit of Measurement	Unit of Measurement
combination no.	Partial Register	Totals Register
1	Litres (L)	Litres (L)
2	Gallons (Gal)	Gallons (Gal)
3	Quarts (Qts)	Gallons (Gal)
4	Pints (Pts)	Gallons (Gal)

To choose between the 4 available combinations:

Wait for the METER to go to Standby Then press the CAL and RESET keys together. Keep these pressed until the word "UNIT" appears on the screen together with the unit of measurement set at that time (in this example Litres / Litres)

Every short press of the RESET key, the various combinations of the units of measurements are scrolled as shown below



By pressing the CAL key at length, the new settings will be stored, the METER will pass through the start cycle and will then be ready to dispense in the set units.

The Reset Total and Total registers will be automatically changed to the new unit of meaurement.

NO new calibration is required after changing the Unit of Measurement.

I MAI	NTENANCE	_J MALF	UN
BATTERY	Use 2x1.5 V alkaline batteries size AAA	Problem	Poss
REPLACEMENT		LCD: no indication	Bad
WARNING	FIRE AND EXPLOSION HAZARD		
	Battery replacement may create a static dis-		Wro
	charge which has the potential to ignite an ex-	Not enough mea-	
	plosive atmosphere. Always replace batteries	surement precision	The
	in a non-explosive atmosphere (non hazardous		min
-	location)		flow
The meter feature	es two low-battery alarm levels:	Reduced or zero	+
'	the LCD the fixed bettery symbol appears	flow rate	TUR
12,345 Q15	this condition meter continues to operate correctly		Inco
23412 3 GAL	but the fixed icon warns the user that it is ADVISABLE	The meter does no	gea
	to change the batteries	count, but the flow	Poss
2	If meter operation continues without changing	rate is correct	prot
-	the batteries, the second battery alarm level will be		
	reached which will prevent operation. In this condi-		
[1,	tion the battery icon starts to flash and is the only one	K DISPO)SA
	to remain visible on the LCD.	Foreword If th	ne syste
To change the	1 Press RESET to update all the totals	mu	st be d
batteries, with	2 Loosen the 4 fixing screws of the lower cover	and	l dispo
reference to the	3 Remove the old batteries	Disposing of The	packa
exploded dia-	4 Place the new batteries in the same position	packing materi- be	deliver
gram positions,	as the old ones	als	
proceed as fol-	ber protection as a casket	Metal Parts Me	tal part
lows	6 Meter will switch on automatically and normal	Disposal <u>cor</u>	isignec
	operation can be resumed	Disposal of The	se mus
The meter will disp	lay the same Reset Total, the same Total and the same Partial	electric and dis	JOSAL O
indicated before th	e batteries were changed.	electronic alc	ations o
After changing the	batteries, the meter does not need calibrating again.	components	onoon
CLEANING	Only one operation is necessary to clean the meter.	Informa- ma	rked w
	After removing meter from the system where it was	tion be	dispos
	installed in, any residual elements can be removed	reaard- The	svmb
	by flushing and rinsing with water If this operation	ina the of t	ogethe
	does not restore a smooth rotation of the turbine, it	environment for itv	of the
NOTICE	will have to be replaced.	clients residing ele	ctric or
NOTICE	Do not discard the old batteries in the environ-	within the coll	ection
	ment. Refer to local disposal regulations.	European Union gov	/erning
		Dis	posing
	Do not use compressed air onto the turbine	for	bidden
	in order to avoid its damage because of an	Any	/ hazar
	excessive rotation	plia	nces a
K24 Front face rep	placeme <u>nt</u>	tial	y serio
1	Carefully remove the screws from the corners of	hea	ilth.
1 terenetere	the front panel, and then carefully lift the front	In c	ase of
- Allenang n	cover up away from the main body of the meter.	Miscellanoous	able as
RESET	(cat)	narts disposal and	wirer
		dia dia	nosal o
		us	<i>J</i> 03al 0
	Carefully remove the screws from the corners of		ΔΙΙ
	cover up away from the main body of the mater		
	cover up away nom the main boay of the meter.		

orrect way

the corner and replace the screws

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MALFUNCTIONS

Possible cause	Remedial Action	
Bad battery contact	Check battery contact	
Wrong K FACTOR	With reference to para graph H, check the K FACTOR	
The meter works below minimum acceptable flow rate.	Increase the flow rate until an acceptable flo rate range has been achieved	
TURBINE blocked	Clean the TURBINE	
Incorrect installation of gears after cleaning	Repeat the reassembly procedure	
Possible electronic card	Contact your dealer	

DISPOSAL

If the system needs to be disposed, the parts which make it up must be delivered to companies that specialize in the recycling and disposal of industrial waste and, in particular:

The packaging consists of biodegradable cardboard which can **ateri-** be delivered to companies for normal recycling of cellulose.

Metal parts, whether paint-finished or in stainless steel, can be consigned to scrap metal collectors. These must be disposed of by companies that specialize in the

disposal of electronic components, in accordance with the indications of directive 2012/19/EU (see text of directive below).

European Directive 2012/19/EU requires that all equipment rma- marked with this symbol on the product and/or packaging not be disposed of together with non-differentiated urban waste. ard- The symbol indicates that this product must not be disposed of together with normal household waste. It is the responsibilnt for ity of the owner to dispose of these products as well as other *ling* electric or electronic equipment by means of the specific refuse collection structures indicated by the government or the local Inion governing authorities.

Disposing of RAEE equipment as household wastes is strictly forbidden. Such wastes must be disposed of separately. Any hazardous substances in the electrical and electronic appliances and/or the misuse of such appliances can have potentially serious consequences for the environment and human

In case of the unlawful disposal of said wastes, fines will be applicable as defined by the laws in force. ous Other components, such as pipes, rubber gaskets, plastic parts

sal and wires, must be disposed of by companies specialising in the disposal of industrial waste.

OVERALL DIMENSIONS

ENGLISH

EC/UKCA-DECLARATION М **OF CONFORMITY**



DEF METER

127663 Besteinr., Type, Teil, Codice, Del, Mépoç, Peça, Referencia, Osa, Součást, Részegység, Daļa, Dalis, Część, Taqsima, Čas Yacr, Páirt, Parte

Complies With The EC Directives:

Modèle, Modell, Modello, Μοντέλο, Modelo, Malli, Mudel, Modelis, Mudell, Mogen, Samha

tlinien, Conforme alle direttive CE, de com as Directivas CE, Cumple las directivas de la CE, Tâytlâ rêrnicemi ES, Vastab EÜ direktiividele. Kielégíti az EK iránvelvei titinka šias ES direktyvas, Zgodność z Dyrektywami UE, Konformi mad-Dirn s merricami ES. Ciseместимост с Директиви на EO, Tá ag teacht le Trev 2014/30/EU EMC Directive, 2011/65/EU Restriction of Hazardous Substances (RoHS2) Directive with Amendment 2015/863

Standards Used: Sahuka maalatavan, Normos respozdes , Verveende Norme, Normo applicate, Anvendie standarder, Прórumo mr gonyomordhiymev, Normas uitlacatas, Normas apicatas, Soveillaneut standardir, Tlimipade standarder, Použié normy, Rakendah tandardird, Alkalmazott szabványok, Izmantolie standarti, Takyti standarta, Uzyte normy, Standards Užati, Uporabijeni standar Joužité normy, Kanonsaev cravagenyr, Caiphdeaim ara n-úsádi, Standartu Utzyte

EN 63000 Approved By

ISO 9001 Registere

Model

Part

Genehmigt von, Approvato da, Godkendt af , Έγκριση από, Aprovado por, Aprobado por, innitanud, Jóváhagyta, Apstiprināts, Patvirtino, Zatwierdzone przez, Aporovat minn. Orlohvil Hyväksynyt, Intygas av, Schválil, Schválené, Onofinence Traválil,

12MAY2021

Hans van Cranenbr Manufactured By: GRACO INC.

88 - 11th Avenue N.E.

GRACO

ISO 9001 Registered

Model

Part

Ap

Minneapolis, MN 55413 USA

	BEL	GIUM	Sillect	leien

199509 L

Authorized Representative: GRACO DISTRIBUTION BVBA

CA

UK GREAT BRITAIN (UKCA) DECLARATION OF CONFORMITY



127663

Complies with UK Statutory Instruments:

2016 No. 1091 Electromagnetic Compatibility Regulations 2016, 2012 No. 3032 Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012

12MAY2021

ndards Used: N 63000	
proved By:	
	2

Carlo and a second seco
ns van Cranenbroek ations director-EMEA
nufactured By: RACO INC. - 11 th Avenue N.E.
nneapolis, MN 55413

This declaration of conformity is issued under the sole responsibility of the manufacture

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Central Square 5th Floo

199509 L

Measurement	system	TURBINE
Flow Rate	Flow-rates	5 - 100 (Litres/minute) FOR WATER/
(Range)		UREA SOLUTION
Operating pre	essure (Max)	10 (Bar) 145 (psi)
Storage temp	erature (Range)	-20 - + 70 (°C)
		-4 - + 158 (°F)
Storage humi	dity (Max)	95 (% RU)
Operating ten	nperature (Range)	-10 - + 50 (°C)
		14 - + 122 (°F)
Flow resistanc	e	0.30 Bar at 100 lit/min.
		5 psi at 26.4 gpm
Permissible Vi	scosity (Range)	2 - 5.35 cSt
Accuracy		±1% after calibration within
		10- 90 (litres/min) 2.65 - 23.8 (gal-
		lons/min) range
Reproducibilit	ty (Typical)	±0,3 (%)
Screen		Liquid crystals LCD. Featuring:
		- 5-figure partial
		- 6-figure Reset Total plus x10 / x100
		6-figure non reset Total plus x10 /
		x100
Power Supply		2x1.5 V alkaline batteries size AAA
Battery life		18 - 36 months
Weight		0.25 Kg / 0.6 lb (included batteries)
Protection		IP65

stainless steel, plastic and rubber suitable for Ad-

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Graco Extended Warranty

Graco warrants all equipment referenced in this document which is manufactured by Graco and bearing its name to be free from defects in material and workmanship on the date of sale to the original purchaser for use. With the exception of any special, extended, or limited warranty published by Graco, Graco will, for a period of twenty-four months from the date of sale, repair or replace any part of the equipment determined by Graco to be defective. This warranty applies only when the equipment is installed, operated and maintained in accordance with Graco's written recommendations.

This warranty does not cover, and Graco shall not be liable for general wear and tear, or any malfunction, damage or wear caused by faulty installation, misapplication, abrasion, corrosion, inadequate or improper maintenance, negligence, accident, tampering, or substitution of non-Graco component parts. Nor shall Graco be liable for malfunction, damage or wear caused by the incompatibility of Graco equipment with structures, accessories, equipment or materials not supplied by Graco, or the improper design, manufacture, installation, operation or maintenance of structures, accessories, equipment or materials not supplied by Graco.

This warranty is conditioned upon the prepaid return of the equipment claimed to be defective to an authorized Graco distributor for verification of the claimed defect. If the claimed defect is verified, Graco will repair or replace free of charge any defective parts. The equipment will be returned to the original purchaser transportation prepaid. If inspection of the equipment does not disclose any defect in material or workmanship repairs will be made at a reasonable charge, which charges may include the costs of parts, labor, and transportation.

THIS WARRANTY IS EXCLUSIVE, AND IS IN LIEU OF ANY OTHER WAR-RANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

Graco's sole obligation and buyer's sole remedy for any breach of warranty shall be as set forth above. The buyer agrees that no other remedy (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or any other incidental or consequential loss) shall be available. Any action for breach of warranty must be brought within two (2) years of the date of sale.

GRACO MAKES NO WARRANTY, AND DISCLAIMS ALL IMPLIED WAR RANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, IN CONNECTION WITH ACCESSORIES, EQUIPMENT, MATERI ALS OR COMPONENTS SOLD BUT NOT MANUFACTURED BY GRACO. These items sold, but not manufactured by Graco (such as electric motors, switches, hose, etc.), are subject to the warranty, if any, of their manufacturer. Graco will provide purchaser with reasonable assistance in making any claim for breach of these warranties.

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FOR GRACO CANADA CUSTOMERS

The Parties acknowledge that they have required that the present document, as well as all documents, notices and legal proceedings entered into, given or instituted pursuant hereto or relating directly or indirectly hereto, be drawn up in English. Les parties reconnaissent avoir convenu que la rédaction du présente document sera en Anglais, ainsi que tous documents, avis et procédures judiciaires exécutés, donnés ou intentés, a la suite de ou en rapport, directement ou indirectement, avec les procédures concernées

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For the latest information about Graco products, visit www.graco.com.

TO PLACE AN ORDER, contact your Graco distributor or call to identify the nearest distributor. Phone: 612-623-6928 or Toll Free: 1-800-533-9655, Fax: 612-378-3590

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