

INDEX table with 3 columns: Page, Description, Page. Includes sections like Declaration of Conformity, General Warnings, Safety Instructions, etc.

1 DECLARATION CE OF CONFORMITY

The undersigned, PIUSI S.p.A. Via Padovana 15/A - 20090 Suzzara - (MN) - Italy HEREBY STATES under its own responsibility that the equipment described below...

2 GENERAL WARNINGS

Warnings To ensure operator safety and to protect the dispensing system from potential damage, workers must be fully acquainted with this instruction manual before attempting to operate the dispensing system.

3 SAFETY INSTRUCTIONS

ATTENTION Mains - preliminary checks before use You must avoid any contact between the electrical power supply and the fluid that needs to be FILTERED.

10 USE MODALITY

10.1 MECHANICAL CHARACTERISTICS

FOREWORD The main feature of these nozzles is that they are easy to use. Two operating modes are available.

10.2 ELECTRONIC CHARACTERISTICS

1 ASSISTED MODE 2 AUTOMATIC MODE The user can choose between two different operating modes: Normal Mode and Flow Rate Mode.

11 MISFILLING (optional)

PREMISE Refuelling with the nozzle equipped with "magnet switch" is only possible in combination with the "magnet adapter".

4 GENERAL SAFETY RULES

Essential protective equipment characteristics ATTENTION Wear protective equipment that is suited to the operations that need to be performed.

INDEX table with 3 columns: Page, Description, Page. Includes sections like Dispensing with Flow Rate Mode, Declaration of Conformity, etc.

5 FIRST AID RULES

NOTE Please refer to the safety data sheet for the product. SMOKING PROHIBITED When operating the dispensing system and in particular during refuelling, do not smoke and do not use open flame.

6 TO KNOW SB325 X M

FOREWORD Dispenser nozzle featuring integrated meter, made of non-conductive plastic and designed for use with water/area solution (AUS32/DEF).

7 PACKAGING

The nozzles are supplied packed in cardboard boxes with label showing following details: 1- Package contents 2- Weight 3- Product description

8 TECHNICAL CHARACTERISTICS

Table with 3 columns: Description, Min. flow rate (l/min), Max. flow rate (l/min). Includes rows for SB325 X M, Intended use, External diameter, etc.

9 INSTALLATION

FOREWORD The automatic nozzles are supplied ready for use. The nozzle features SWIVEL hose-end fitting (complete with O-ring) useful for connecting to the supply hose.

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12 PRELIMINARY CHECK WARNING Check the correct operation of the lock device, according to the following procedure: 1 - Take a graduated recip... 2 - Begin dispensing into the re... 3 - Keeping the lever open, make 5 - Repeat the same operations with...

13 INITIAL START UP

FOREWORD Only start dispensing after making sure that assembly and installation have been correctly performed. ATTENTION It is a good practice to only operate the nozzle lever after making sure the spout has been properly inserted in the mouth of the tank to be filled.

14 WHAT IT LOOKS LIKE

FOREWORD The "LCD" of the METER features two numerical registers and various indications displayed to the user only when the applicable function so requires.

Diagram of the meter showing various registers and buttons. Labels include: Partial register (5 figures with moving comma FROM 0), General Total register (6 figures with moving comma FROM 0), Flow Rate (0.0), etc.

14.1 USER BUTTONS

FOREWORD The METER features two buttons (RESET and CAL) which individually perform two main functions and, together, other secondary functions. MAIN FUNCTIONS PERFORMED SECONDARY FUNCTIONS LEGEND

14.2 BATTERY HOUSING

NOTE METER is powered by two 15V standard type batteries (size AAA). The battery housing is easily accessible and is closed by a cover with seal. ELECTRIC SHOCK Turn off and disconnect power cord before servicing equipment.

15 DAILY USE

FOREWORD 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 METER. NOTE 6 digits are available for Totals, plus two icons x10 / x100. The increment sequence is the following: 0.0 -> 99999.9 -> 999999.9 -> 100000.0 -> 999999.9 -> 1000000.0 -> 9999999.9 -> 10000000.0 -> 99999999.9 -> 100000000.0 -> 999999999.9 -> 1000000000.0

15.1 DISPENSING IN NORMAL MODE

FOREWORD Normal mode is the standard dispensing. While the count is normal, the partial and resettable total are displayed at the same time (reset total). WARNING Should one of the keys be accidentally pressed during dispensing, this will have no effect. STAND BY 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 until the user operates the METER again.

15.1.1 PARTIAL RESET (NORMAL MODE)

The partial register can be reset by pressing the reset key when the meter is in standby, meaning when the display screen shows the word "TOTAL". After pressing the reset key during reset, the display screen first of all shows all the lit-up digits and then all the digits that are not lit up.

At the end of the process, a display page is first of all shown with the reset partial and the reset total. and, after a few moments, the reset total is replaced by the non resettable Total.

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

15.1.2 RESETTING THE RESET TOTAL The reset total resetting operation can only be performed after resetting the partial register. The reset total can in fact be reset by pressing the reset key at length while the display screen shows reset total. Procedure: 1 - Wait for the display to show normal standby display page... 2 - 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.

15.2 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: 1 - wait for the Remote Display to go to Standby, meaning the display screen shows Total only 2 - quickly press the CAL key. 3 - Start dispensing. 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 values.

15.2.1 PARTIAL RESET (FLOW RATE MODE)

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

16 CALIBRATION

16.1 WHY CALIBRATE? When working in extreme operating or flow conditions, (close to minimum or maximum acceptable range values), it may be a good idea to calibrate in the field, in the real conditions in which the SB325 X.M has to work. 16.2 DEFINITIONS Multiplication factor applied by the system to the electrical pulses received, to transform these into measured fluid units.

16.3 K FACTOR

FOREWORD Calibrate means performing actions on the meter keys. Below is the legend of the symbols used to describe the actions to be performed. LONG PRESSURE OF CAL KEY SHORT PRESSURE OF RESET KEY LONG PRESSURE OF RESET KEY

16.4 CALIBRATION MODE

Why calibrate? 1 - Display the currently used calibration factor. 2 - Return to factory calibration (Factory K Factor) after a previous calibration by the user. 3 - Change the calibration factor using one of the two previously indicated procedures. Two procedures are available for changing the Calibration Factor: 1 - In-Field Calibration, performed by means of a dispensing operation. 2 - Direct Calibration, performed by directly changing the calibration factor on the display screen table, in the calibration mode, the partial and total dispensed quantities indicated on the display screen take on different meanings according to the calibration procedure phase. In calibration mode, the METER cannot be used for normal dispensing operations. In "Calibration" mode, the totals are not increased.

16.4.1 IN-FIELD CALIBRATION PROCEDURE

1 NONE METER in Standby 2 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. 3 LONG RESET KEY KEYING METER is ready to perform in-field calibration by dispensing - see previous paragraph. 4 LONG RESET KEY KEYING We now go on to Direct change of the calibration factor: the word "Direct" is shown on the display page. The flow rate will appear showing the direction (increase or decrease) of change of the displayed value when subsequent operations (1 or 2) are performed. 5 SHORT RESET KEY KEYING Changes the direction of the arrow. The operation can be repeated to reverse the direction of the arrow. 6 SHORT/LONG CAL KEY KEYING The indicated value changes in the direction indicated by the arrow - one unit for every short CAL key keying, continuously 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). 7 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. 8 NO OPERATION At the end of the calculation, the new USER K FACTOR is shown for a few seconds, after which the reset cycle is repeated to finally achieve standby condition. 9 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.

16.4.2 IN-FIELD CALIBRATION

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16.4.3 DIRECT MODIFICATION OF K FACTOR

If normal Meter operation shows a mean percentage error, this can be corrected by applying 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: New K Factor = Old K Factor * (100 - %err / 100) EXAMPLE: Error percentage found: %6 -0.9 % CURRENT calibration factor: 1000 New USER K FACTOR: 1000 * (100 - (-0.9)/100) = 1000 * (100 + 0.9/100) = 1009 If the Meter indicates that 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).

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

16.4.2 IN-FIELD CALIBRATION PROCEDURE ACTION DISPLAY 1 NONE METER in Standby 2 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. 3 LONG RESET KEY KEYING METER is ready to perform in-field calibration by dispensing - see previous paragraph. 4 LONG RESET KEY KEYING We now go on to Direct change of the calibration factor: the word "Direct" is shown on the display page. The flow rate will appear showing the direction (increase or decrease) of change of the displayed value when subsequent operations (1 or 2) are performed. 5 SHORT RESET KEY KEYING Changes the direction of the arrow. The operation can be repeated to reverse the direction of the arrow. 6 SHORT/LONG CAL KEY KEYING The indicated value changes in the direction indicated by the arrow - one unit for every short CAL key keying, continuously 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). 7 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. 8 NO OPERATION At the end of the calculation, the new USER K FACTOR is shown for a few seconds, after which the reset cycle is repeated to finally achieve standby condition. 9 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.

17 METER CONFIGURATION

The METER features a menu with which the user can select the main measurement unit, Quarts (Qt), Pints (Pt), Litres (L), 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, Partial Register, Unit of Measurement, Totals Register. 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.)

17.1 MALFUNCTIONS

FOREWORD The possible causes of malfunction are mainly attributable to three factors: 1 Nozzle dirty in inner hole of lip at end of spout. Corrective action: submerge spout in A3-Blue or demineralised water to eliminate the crystallisation. 2 Operating pressure of liquid to be dispensed below 0.5 Bar or above 3.5 Bar. 3 Flow rate too low or too high. Correct and regular maintenance of the nozzle and of the system to which it is connected prevents malfunctions and possible accidental spills of hazardous liquids.

17.2 ELECTRONIC MALFUNCTIONS

Problem LCDs no indication Possible cause Remedial Action Bad battery contact Check battery contacts. Wrong K FACTOR With reference to paragraph H, check the K FACTOR. The meter works below minimum acceptable flow rate. Increase the flow rate until an acceptable flow rate range has been achieved. TURBINE blocked CLEAN the TURBINE. Incorrect installation of gears after cleaning Repeat the reassembly procedure. Possible electronic card problems Contact your dealer.

17.3 MECHANICAL MALFUNCTIONS

ATTENTION The Reset Total and Total registers will be automatically changed to the new unit of measurement. NO new calibration is required after changing the Unit of Measurement.

18 MAINTENANCE

BATTERY REPLACEMENT WARNING METER should be installed in a position allowing the batteries to be replaced without removing it from the system. METER features two low-battery alarm levels. When the battery charge falls below the first level on the LCD, the fixed battery symbol appears. If METER operation continues without changing the batteries, the second battery alarm level will be reached which will prevent operation. In this condition the battery icon starts to flash and is the only one to remain visible on the LCD.

18.1 BATTERY REPLACEMENT

To change the batteries, with reference to the exploded diagram portions, proceed as follows: 1 Unscrew the nut. 2 Loosen the screw (1). 3 Remove the cover (2) right side. 4 Change the batteries. Assemble everything back on the seal around the cover housing and take care to place it. DO NOT OVERTIGHTEN THE SCREW

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20 TECHNICAL DATA Measurement system TURBINE Resolution (nominal) High Flow 0.010 l/impulse Low Flow 0.005 l/impulse Flow Rate (Range) 5 - 45 (Litres/minute) FOR AUS32 (Max. 40 l/min at 0°C - 0°C) Operating pressure (Max) 3.5 (Bar) Storage temperature (Range) -20 - +70 (°C) Storage humidity (Max) 95 (% RH) Operating temperature (Range) -20 - +50 (°C) Flow resistance 0.20 (Bar) at 35 l/min Viscosity (Range) 2 - 53 (cSt) Accuracy +/- 1% after calibration within +/- 0.3 (%) Reproducibility (Typical) 10.0 (K) (included batteries) 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 1.05 Kg (included batteries) Protection IP65

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21 DEMOLITION AND DISPOSAL

Foreword 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 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/UE (see text of directive below).

21.1 MALFUNCTIONS

Information regarding environment -ment for clients residing within the European Union European Directive 2012/19/UE requires that all equipment marked with this symbol on the product and/or packaging must be disposed of together with non-differentiated urban waste. The symbol indicates that this product must not be disposed of together with normal household waste. It is the responsibility of the owner to dispose of these products as well as other electric or electronic equipment by means of the specific refuse collection structures indicated by the government or the local governing authorities. Disposing of RAEE equipment as household waste is strictly forbidden. Such wastes must be disposed of separately. Any hazardous substances in the electrical and electronic appliances and/or the residue of such appliances can have potentially serious consequences for the environment and human health. In case of the unlawful disposal of said wastes, fines will be applicable as defined by the law. Other pollutants, such as pipes, rubber gaskets, plastic parts and wires, must be disposed of by companies specializing in the disposal of industrial waste.

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PIUSI Fluid Handling Innovation SB325_X M SUZZARABLU AUTOMATIC NOZZLE METER



Manuale d'uso, manutenzione e calibrazione Use, calibration and maintenance manual

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