

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

10.2 ELECTRONIC CHARACTERISTICS

The user can choose between two different operating modes: Normal Mode. Mode with display of Partial and Total dispensed quantities...

11 MISFILLING (optional)

Refuelling with the nozzle equipped with "magnet switch" is only possible in combination with the "magnet adapter", so misfilling into tanks is made impossible.

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, Declaration of Conformity, etc.

5 FIRST AID RULES

Please refer to the safety data sheet for the product. 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

Dispenser nozzle featuring integrated meter, made of non-conductive plastic and designed for use with water/area solution (AUS32/DEF). The meter integrated with the SB325 X M nozzle uses a turbine measuring system...

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 Max. flow rate, Max. flow rate, etc.

9 INSTALLATION

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 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

Only start dispensing after making sure that assembly and installation have been correctly performed. 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

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

14.1 USER BUTTONS

The METER features two buttons (RESET and CAL) which individually perform two main functions and, together, other secondary functions.

14.2 BATTERY HOUSING

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. Everything is easily removable by taking off the rubber protection around the nozzle and loosening the screws which secure the cover.

15 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 METER. Occasionally the meter may need to be configured or calibrated. To do so, please refer to the relevant chapters.

15.1 DISPENSING IN NORMAL MODE

Normal mode is the standard dispensing. While the count is normal, the partial and resettable total are displayed at the same time (reset total).

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".

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.

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.

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 as on the following display page.

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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 KEY

Calibrate means performing actions on the meter keys. Below is the legend of the symbols used to describe the actions to be performed.

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.

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.

16.4.2 IN-FIELD CALIBRATION

This procedure calls for the fluid to be dispensed into a graduated sample container in real operating conditions (Flow rate, viscosity, etc.) requiring maximum precision.

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16.4.2 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 percent error correction of the USER K FACTOR must be calculated by the operator in the following way.

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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.

17.1 METER CONFIGURATION

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

17.2 METER CONFIGURATION

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.

17.3 METER CONFIGURATION

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.

18.1 MAINTENANCE

When the battery charge falls below the first level on the LCD, the fixed battery symbol appears. In this condition, METER continues to operate correctly, but the fixed icon warns the user that it is ADVISABLE to change the batteries.

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19 MALFUNCTIONS

19.1 MECHANICAL MALFUNCTIONS The possible causes of malfunction are mainly attributable to three factors: Nozzle fitted in inner hole of lip at end of spout.

19.2 ELECTRONIC MALFUNCTIONS

Problem LCDs no indication Possible cause Bad battery contact Remedial Action Check battery contacts.

19.3 ELECTRONIC MALFUNCTIONS

Problem Not enough measurement precision Possible cause Wrong K FACTOR Remedial Action With reference to paragraph H, check the K FACTOR.

PIUSI Fluid Handling Innovation SB325 X M SUZZARABLU AUTOMATIC NOZZLE METER



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

MADE IN ITALY

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

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