

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

1 DECLARATION OF CONFORMITY

The undersigned, PIUSI S.p.A. Via Padovana 15/A s.l. Borgo Vico 46029 Suzarano (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.

4 GENERAL SAFETY RULES

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

DISPENSING WITH FLOW RATE MODE DISPLAY PARTIAL RESET (FLOW RATE MODE) CALIBRATION WHY CALIBRATE? DEFINITIONS KEY CALIBRATION MODE DISPLAY OF CURRENT CALIBRATION FACTOR AND RESTORING FACTOR FACTOR

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). The meter integrated with the SB325 X M nozzle uses a turbine measuring system and interfaces with the user by means of the LCD display.

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 4 columns: Description, Max. flow rate (l/min), Max. flow pressure (bar), Intake thread with solvent, External diameter (mm), Max. hose length (m), Max. operating pressure (bar), Weight (kg).

9 INSTALLATION

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

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: 1- Normal Mode 2- Flow rate Mode Note

11 MISFILLING (optional)

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

12 PRELIMINARY CHECK WARNING Check the correct operation of the lock device, according to the following procedure: 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.

13 INITIAL START UP

FOREWORD Only start dispensing after making sure that assembly and installation have been correctly performed. ATTENTION When using for the first time and every time the nozzle is used, following the connection of the supply hose, gently operate the lever to enable the air to escape from the circuit, until normal operation is achieved.

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.

14.1 USER BUTTONS

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

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.

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

15.1 PARTIAL RESET (NORMAL MODE)

FOREWORD Normal mode is the standard dispensing. While the count is moving, 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.

15.2 DISPENSING IN NORMAL MODE

FOREWORD Normal mode is the standard dispensing. While the count is moving, the partial and resettable total are displayed at the same time (reset total). ATTENTION Should one of the keys be accidentally pressed during dispensing, this will have no effect.

15.2.1 PARTIAL RESET (NORMAL MODE)

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 be reset by pressing the reset key at length while the display screen shows reset total as on the following display page.

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)

ATTENTION 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

CALIBRATION FACTOR OR "K FACTOR" FACTOR Multiplication factor applied by the system to the electrical pulses received, to transform these into measured fluid units.

16.3 KEY

SHORT PRESURE OF CAL KEY LONG PRESURE 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.

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 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)

16.4.3 DIRECT MODIFICATION OF K FACTOR

ATTENTION Do not use compressed air on the turbine in order to avoid its damage because of an excessive rotation. Periodically check the correct operation of the automatic stop device if fitted, it is best to periodically check the filter and clean it every 1000 litres of transfer.

16.4.2 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 precision.

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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 MAINTENANCE

BATTERY REPLACEMENT WARNING METER should be installed in a position allowing the batteries to be replaced without removing it from the system.

17.2 MAINTENANCE

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.

17.3 MAINTENANCE

ATTENTION To change the batteries, with reference to the exploded diagram positions, proceed as follows: 1. Unscrew the nut. 2. Loosen the screw (1). 3. Remove the cover (2). 4. Remove the cover (3) right side. 5. Change the batteries. 6. Assemble everything back on the seal around the cover housing and take care to place it.

17.4 MAINTENANCE

ATTENTION Do not use compressed air on the turbine in order to avoid its damage because of an excessive rotation. Periodically check the correct operation of the automatic stop device if fitted, it is best to periodically check the filter and clean it every 1000 litres of transfer.

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17.8 MAINTENANCE

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PIUSI Fluid Handling Innovation SUZZARABLU AUTOMATIC NOZZLE METER



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

MADE IN ITALY

20 TECHNICAL DATA Measurement system TURBINE Resolution (nominal) High Flow 0.010 l/impulse Low Flow 0.005 l/impulse

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:

Disposing of packing materials Metal Parts Disposal The packaging consists of biodegradable cardboard which can be delivered to companies for normal recycling of cellulose.

Disposing of electric and electronic components This 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).

Information regarding environmental protection 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.

Miscellaneous parts disposal Other components, such as pipes, rubber gaskets, plastic parts and wires, must be disposed of by companies specializing in the disposal of industrial waste.

PIUSI Fluid Handling Innovation

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