



Installation, use and maintenance

EN

BULLETIN MO546 EN_03





ENGLISH

BULLETIN MO546

PIUSI CUBE SMART

R

1 **CONTENTS**

2		4
2	CONFORMITY DECLARATION	4
3	SAFETY INSTRUCTIONS	5
5	FIDST AID DEGULATIONS	7
4		, 7
0	SAFETY NORMS	/
7	TRANSPORT, HANDLING AND UNPACKING	8
	71 DIMENSIONS AND WEIGHTS	9
		10
-	7.2 CONTENT OF THE PACKAGING/PRELIMINARY INSPECTION	10
8	MACHINE AND MANUFACTURER IDENTIFICATION	
	81 POSITION OF THE PLATES	11
0	DESCRIPTION OF THE MAIN BARTS	13
7		13
	9.1 CASING AND PUMPING UNIT	13
	9.2 PULSER FLOW METER	13
		14
		14
	9.4 LEVEL INDICATOR	14
	9.5 DISPLAY COVER	14
		14
10		14
10	OPERATION	10
12	TECHNICAL SPECIFICATIONS	18
13	USE	20
10		20
		20
	13.2 NOT INTENDED USE	20
	13.3 REASONABLY FORESEEABLE MISUSE	20
14		21
14		21
	14.1 DISPENSER POSITIONING	21
	14.2 STATION FIXING	22
	14.3 HYDRAULIC CONNECTIONS	24
		25
	14.4 ELECTRICAL CONNECTIONS	25
15	INITIAL CONFIGURATION	30
	15.1 SWITCHING-ON	30
	15.2 CONFIGURATION VIA ADD AND WEBADD	31
		75
	15.5 CONTROLLER CONFIGURATION VIA WEBAPP	35
16	START-UP	38
	161 FIRST PRIMING	
17		30
1/	PLOW METER CALIBRATION	J9 70
18	DAILY USE	39
19	DRIVER ACCESS	40
	191 FIRST DRIVER ACCESS FROM APP	40
		40
	19.2 DRIVER - DISPENSING VIA APP	42
	19.3 DISPENSING VIA USER KEY (I-BUTTON)	46
20	MAINTENANCE	48
		18
		40
	20.2 EXTRAORDINARY MAINTENANCE	50
	20.3 CHECK AND REPLACEMENT OF FUSES	51
21		53
21		53
	21.1 MECHANICAL AND HYDRAULIC PROBLEMS	55
	21.2 ELECTRICAL/ELECTRONIC CONNECTIONS	54
	21.3 PROBLEMS WITH THE SMARTPHONE APP	54
22		55
22		55
23	SCRAPPING AND DISPOSAL	5/
24	EXPLODED VIEWS	58



2 CONFORMITY DECLARATION

The undersigned:

PIUSI S.p.A. Via Pacinotti 16/A - Z.I. Rangavino 46029 Suzzara - (MN) - Italy

DECLARES under its own responsibility, that the unit described below:

Description: Dispenser for diesel

Model: CUBE B.SMART

Serial number: refer to the Lot Number indicated on the CE plate affixed to the product Year of manufacture: refer to the year of production indicated on the CE plate affixed to the product. conforms to the legal regulations that transpose the following directives:

- Machinery Directive 2006/42/EC

- Electromagnetic Compatibility Directive 2014/30/EU
- ROHS Directive 2011/65/EU

- RED Directive 2014/53/UE

The documentation is at the disposal of the relevant authority upon justified request at PIUSI S.p.A. or request via e-mail: doc_tec@piusi.com The party authorised to compose the technical file and draw up the declaration is Otto Varini in his capacity as legal representative.

Suzzara, 01/09/2020

Otto Varini legal representative.

2 GENERAL WARNINGS

Important For operators' safety and to prevent any damage, the instruction manual must be fully read and understood before carrying out any operation. information The following symbols will be used in the manual to highlight particularly Symbols used important instructions, warnings and information. in the manual IMPORTANT This symbol indicates safety regulations for the operators and/or any persons at risk. WARNING This symbol indicates the possibility of damage to the unit and/or its components. NOTE This symbol indicates useful information. This manual must be whole and legible in its entirety. The end user and Storage of the specialist technicians authorised for installation and maintenance must be manual able to read it at any time. Reproduction All reproduction rights of this manual are reserved to Piusi S.p.A. The text cannot be used in other printed publications without written authorisation riahts from Piusi S.p.A. © Piusi S.p.A. THIS MANUAL BELONGS TO PIUSI S.p.A. THE REPRODUCTION OF ALL OR PARTS IS PROHIBITED. This manual belongs to Piusi S.p.A., the exclusive holder of all rights envisaged by the relevant laws, including by way of example copyright law. All rights according to such law are reserved to Piusi S.p.A.: the reproduction of all or parts of this manual, its publication, alteration, transcription, disclosure to the public, distribution, sale in any form, translation and/or processing, loan, and any other activity reserved by law to Piusi S.p.A.

3 SAFETY INSTRUCTIONS

IMPORTANT

Electrical supply preliminary checks for installation Completely avoid contact between the electrical supply and the liquid to be pumped.

Inspection and Before any inspection or maintenance, cut off the POWER SUPPLY maintenance operations FIRE AND To prevent fire and explosion risks: **EXPLOSION** Use the station only in ventilated areas If there are Keep the work area free of scraps, including scraps and solvent or petrol flammable liquids tanks. in the working area, Do not plug or unplug or operate the switch in the presence of flammable flammable vapours vapours. may be present and may cause fire All devices in the work area must be grounded. or explosion during Interrupt immediately any action if there are sparks or shocks. Do not use station use. the station until you have identified and resolved the problem. Keep a fire-extinguisher in good working order close to the working area. ELECTRIC This station must be arounded. Improper installation or use of the station may result in danger of electric shock. SHOCK Switch off and unplug the power cord after use. Electrocution Connect only to grounded sockets. Use only grounded cables in accordance with the applicable regulations. or death Unsuitable extension leads may be dangerous. Make sure that the plug and socket of the extension cords are intact. Unsuitable extension leads may be dangerous. In outdoor use, use only extensions suitable for the specific use, according to the regulations in force. The plug and socket must be connected far from water. Do not expose to rain. Install in a sheltered location. Never touch the plug or the socket with wet hands. Do not turn the distribution system on if the supply connection cable, important parts of the equipment - the suction/delivery tube for example - the nozzle or the safety devices are damaged. Replace the damaged pipe immediately before use. Before each use, check that the mains connection cable and the plug are not damaged. If damaged, have the cable and plug replaced by qualified personnel. The plug and socket must be connected far from water. Outdoors, use only authorised extension leads for which this use is envisaged with an adequate wire diameter in accordance with the regulations in force. As a general rule of electrical safety it is always recommended to power the device by protecting the line with: - circuit breaker/disconnector with a current rating suitable for the power line - 30 mA residual current device The electrical connection must have a ground fault current interrupter (GFCI). Installation operations are carried out with the box open and the electrical contacts accessible. All these operations must be carried out with the unit isolated from the mains in order to avoid hazards of electrocution!





	л ! Ъ	Do not operate the unit when tired or under the influence of drugs or
Improper use of the		Do not leave the work area while the unit is on and operating.
device can cause		Turn off the unit when not in use.
serious damage or death.		Do not alter or modify the unit. Alterations or modifications to the unit may invalidate its type-approval and result in dangers to safety.
		Arrange the hose and the power cables always far from transit areas, sharp edges, moving parts and hot surfaces.
		Do not twist the hose or use a stronger hose.
		Keep children and animals far from the work area
		Observe all applicable safety regulations.
		Do not exceed the maximum working pressure or temperature of the component with the lowest system rating.
		See the technical specifications in all machine manuals.
		Use liquids and solvents that are compatible with the wet parts of the unit. See the technical specifications in all machine manuals. Read
		information about the material, request the Safety Data Sheet (MSDS) from your distributor or dealer.
		Check the unit every day. Repair or replace worn or damaged parts immediately with original manufacturer's spare parts only.
		Make sure that the unit is classified and approved in accordance with the regulations for the environment in which it is used.
		Use only the unit for its intended purpose. Contact your distributor for more information.
		Keep hoses and cables away from transit areas, edges, moving parts and hot surfaces.
		Do not bend or bend the hoses too much or use the hoses to pull the unit.
DANGER OF BURNS		To avoid severe burns, do not touch liquids or equipment
Danger of smoke and toxic fluids.		For problems deriving from the product handled with eyes, skin, inhalation and ingestion, refer to the safety data sheet of the fluid used.
		Store treated liquids in suitable containers and in compliance with applicable regulations.
		Prolonged contact with the product handled may cause skin irritation; always use protective gloves when dispensing.

PIUSI CUBE CUBE

FIRE AND **EXPLOSION**

If it is necessary to dispense in areas classified as hazardous for explosion, it is forbidden to use the smartphone less than 30 cm away from the fluid at the time of dispensing.



The PIUSI B-SMART product has been conceived to be used together with the user's mobile phone only and exclusively for the operations of connection, authentication and connection of the user's device to the fuel dispenser in order to perform remotely certain operations described in this manual.

If the PIUSI B-SMART product is used to refill petrol or other fuel or liquid that emits flammable vapours or in any case creates potentially explosive atmospheres according to the current ATEX regulations (Directive 2014/34/EU and relative applicable national implementing provisions, including any later amendment or additions), the use of the mobile phone while dispensing and in any case within any zone classified for ATEX purposes in accordance with the regulations in force is strictly prohibited. except in the case where the unit is regularly ATEX certified and authorised for use in the relevant area. The mobile phone must therefore remain outside this area or be switched off.

The use of the mobile phone by the user when refilling the vehicle with other non-flammable liquids is in any case strongly discouraged as it can cause distractions that can be dangerous.

PIUSI disclaims any and all liability in the event of damage to the person or property of the user or third parties resulting from failure to comply with the above warnings and / or any other negligent, reckless or imperishable behaviour of the user.

5 FIRST AID REGULATIONS

Persons subjected to electrical discharae

Disconnect the supply, or use a dry insulator for protection when moving the victim far away from any lead. Avoid touching the victim with bare hands until they are far away from any lead. Request the assistance of trained, gualified staff immediately. Never operate switches with wet hands

NO SMOKING



Do not smoke near the dispenser and do not use the pump near open flames.

SAFETY NORMS 6

Basic characteristics of Wear protective equipment that is: the protective equipment • suitable for the operations to be carried out resistant to the products used for cleaning. Personal protective Safety shoes; equipment to be worn Close-fitting clothing; Protective gloves; Safety goggles;

Other equipment

Instruction manual.

Z



7 TRANSPORT, HANDLING AND UNPACKING

CUBE B.SMART is shipped in a cardboard packaging that can be stacked. During storage follow the directions shown on the packaging with graphic patterns about the handling side. If the machine is lifted, check if the capacity of the lifting means and of the accessories (such as the bands) is correct. The use of mechanical means for handling and lifting must be solely entrusted to authorised and suitably trained staff.

During machine inactivity, both packed or unpacked, it should be stored in an area protected against weather agents (rain, moisture, sun, etc...) and dust.

To open the cardboard packaging, use scissors or a cutter, taking care not to damage the system.

With the help of a second operator, fully open the packaging and grasp the CUBE B.SMART putting it vertical, so that it can be positioned afterwards. Once removed from the packaging, the station should always be kept vertical. The packaging elements (cardboard, wood, cellophane, polystyrene, etc...) must be placed in the suitable containers and not left in the environment or within children easy reach as they are potentially harmful. Disposal should be performed in compliance with the standards in force in the utilisation country.

The packaging shall bear the following indications:

- arrow indicating the UPPER side;

- label showing the information for the equipment (model, weight, etc.).









7.2 CONTENT OF THE PACKAGING/PRELIMINARY INSPECTION

Foreword

Before assembly, make sure the machine is integer controlling all parts for possible damage that could hinder safety and functionality. In case of doubt, do not start up and contact the manufacturer's technical service.

Control if the accessory set is complete.

At the end of the inspection, assemble CUBE B.SMART:

1 INSTALL THE PIPE-HOLDING HOOK

INSTALLATION EXAMPLE



PIUSI CUBE 🔊 B.SMART

3 APPLY THREAD SEALANT TO THE CONNECTORS BEFORE FINAL ASSEMBLY



8 MACHINE AND MANUFACTURER IDENTIFICATION

The CUBE $\operatorname{B.SMART}$ stations are equipped with an identification plate attached to the frame:

- Model
- Serial number / year of manufacture
- Technical data
- CE marking
- Manual code

IMPORTANT

Before installation, always check that the dispensing system model is correct and suitable for the supply currently available (Voltage / Frequency).

8.1 POSITION OF THE PLATES

Some stickers and/or plates are applied to the distribution system to indicate the most relevant information to the operator. It is necessary to check that these do not deteriorate or detach over time.

NOTE

Should this occur, please contact our customer assistance office so that we can send you copies of the spoilt or missing plates/labels for reapplication where originally provided.

The following labels are present:



- Pump operation plate.

1







Z

9 DESCRIPTION OF THE MAIN PARTS9.1 CASING AND PUMPING UNIT

The CUBE B.SMART dispenser are designed for the transfer of diesel fuel for non-commercial use. Featuring maximum safety and ease of use, CUBE dispensers are reliable, high-performance equipment; they are installed quickly and are ready for use. Equipment and characteristics:



9.2 PULSER FLOW METER

The Pulser K6OO/3 flow meter has a high-precision oval gear measuring system designed to allow accurate fuel measurement. They consist of a sturdy die-cast aluminium structure, complete with inlet filter and are easy to maintain and reliable. For further information, please refer to the dedicated manual.



9.3 DISPENSING NOZZLE

The dispensing nozzle supplied with CUBE B.SMART is an automatic type, with a stop device when the tank is full.

9.4 LEVEL INDICATOR

The level indicators to which the dispenser can be connected are only clean contacts, which are configured by WebApp.

9.5 DISPLAY COVER

To ensure adequate protection for the panel, a damper display cover has been designed which can be lowered if necessary. It is advisable, in very strong sunlight conditions, to keep the display cover always lowered.



9.6 DISPENSING MANAGEMENT SYSTEM

FOREWORD

B.SMART is an electronic system for controlling the dispensing of fluids via smartphone.

The control system consists of:

An electronic controller

equipped with a BlueTooth interface (BLE 4.0 and later), a display and an interface LED that controls a dispensing pump

An APP

installed on a smartphone equipped with an Android operating system or Apple IoS

A WebAPP

namely an internet portal accessible from any PC or Tablet connected to the internet from which the entire site can be monitored

SYSTEM FUNCTIONS

- site configuration, acquisition and management of refillings, management of refilling fuel dispensers, management of drivers, vehicles and detailed reporting of the dispensings via WebAPP accessible from any PC/Tablet, using your credentials
- Fuel dispensing using the dedicated APP: PIUSI APP, downloadable only for smartphones from Play Store and App Store, which connects to the fuel dispenser / controller via BLE connection
- Fuel dispensing using the dedicated APP also in areas without 3/4G coverage and Wi-Fi
- Dispensing via iButton associated with the individual driver
- Possibility to remotely manage sites far from the company headquarters

As can be seen from the descriptive diagram on page 15, an example of a basic system structure is given showing the possibility of managing multiple controllers simultaneously, within the same plant

For more specific details on modes of connection and communication between controllers, please refer to the manual found in the system management WebApp.

COMPATIBILITY WITH OPERATING SYSTEMS	The system is compatible with the following iOS versions: • iOSIO • iOSI1 • iOSI2 and subsequent	
	The system is compatible with the following Android versions:	
	• 5.0 - 5.1	
	• 6.0 • 7.0-71	
	• 8.0	
	9.0 and subsequent	
DISPENSER	Composed of an electronic controller to manage fuel dispensing, equipped with:	
	Berder for iButton	
	BIE 4.0 connection (or following)	
	 Status sensors for: level alarms, flow meters, positioning of the dispensing nozzle Pump on/off control 	
CLOUD	Where there is the database to store the configurations of the site and the dispenser, the drivers, the license plates of the vehicles and all the dispensings	
WebApp	Web interface used by the site manager. It has various functions: it monitors the dispensings (from whom they were made, when, in which fuel dispenser), creates/eliminates users from the site, adds/removes fuel dispensers from the site. The only external device the WebApp connects to is a USB reader for iButton	
APP	It makes several operations:	
	 It manages two types of users: driver and manager 	
	• It sends commands to the fuel dispenser and receive answers, the	
	commands are used to perform: dispensing, calibration, updating the firmware of the fuel dispenser, downloading updates of the fuel	





PIUSI CUBE CUBE



10 **OPERATION**

The fuel dispenser is powered by a voltage ranging from 220 V to 240 V, 50 Hz. It is equipped with a motor, 4-character backlit display, iButton reader, blue LED for Bluetooth connection and red LED for warning/alarm:



up the display shows a code indicated by a letter A and by an incremental number. Whenever the led is on, it is not possible to dispense.

Below are the possible coded errors, with their respective resolution methods:

Coding	Description	Explanation/Solution
ΕĪ	WARNING_MASTER_PUMP_ GROUPA_LEVEL1_CONTACT	Contact 1 associated with pump A of the main controller is active: red LED flashing.
23	WARNING_MASTER_PUMP_ GROUPA_LEVEL2_CONTACT	Contact 2 associated with $pump\;A$ of the main controller is active: red LED flashing.
EЭ	WARNING_MASTER_PUMP_ GROUPA_THR1	The tank associated with pump A of the main controller has reached the level 1 threshold: red LED flashing.
EЧ	WARNING_MASTER_PUMP_ GROUPA_THR2	The tank associated with pump A of the main controller has reached the level 2 threshold: red LED flashing.
63	WARNING_SLAVE_PUMP_ GROUPA_LEVEL1_CONTACT	Contact 1 associated with pump A of the secondary controller is active: red LED flashing.
C 10	WARNING_SLAVE_PUMP_ GROUPA_LEVEL2_CONTACT	Contact 2 associated with pump A of the secondary controller is active: red LED flashing.
EII	WARNING_SLAVE_PUMP_ GROUPA_THR1	The tank associated with pump A of the main controller has reached the level 1 threshold: red LED flashing.
C 12	WARNING_SLAVE_PUMP_ GROUPA_THR2	The tank associated with pump A of the secondary controller has reached the level 2 threshold: red LED flashing.



ΕП	WARNING_MASTER_PUMP_ GROUPA_PROBE_OCIO	Fault detected on the level sensors connection line. (The system allows manual dispensing)
C 19	WARNING_MASTER_SLAVE_ GROUPA_PROBE_OCIO	Fault detected on the level sensors connection line. (The system allows manual dispensing)
C25	WARNING_CANBUS_COM	Fault detected on the connection line between controllers. The system behaves as for probe alarms, allowing manual dispensing
RI	ALARM_MASTER_PUMP_ GROUPA_LEVEL1_CONTACT	Contact 1 associated with pump A of the main controller is active: red LED on (not flashing). Delivery not possible
82	ALARM_MASTER_PUMP_ GROUPA_LEVEL2_CONTACT	Contact 2 associated with pump A of the main controller is active: red LED on (not flashing). Delivery not possible
RB	ALARM_MASTER_PUMP_ GROUPA_THR1	The tank associated with pump A of the main controller has reached the level 1 threshold: red LED on (not flashing). Delivery not possible
RЧ	ALARM_MASTER_PUMP_ GROUPA_THR2	The tank associated with pump A of the main controller has reached the level 2 threshold: red LED on (not flashing). Delivery not possible
R9	ALARM_SLAVE_PUMP_ GROUPA_LEVEL1_CONTACT	Contact 1 associated with pump A of the secondary controller is active: red LED on (not flashing). Delivery not possible
R 10	ALARM_SLAVE_PUMP_ GROUPA_LEVEL2_CONTACT	Contact 2 associated with pump A of the secondary controller is active: red LED on (not flashing). Delivery not possible
A	ALARM_SLAVE_PUMP_ GROUPA_LEVEL1_THR1	The tank associated with pump A of the main controller has reached the level 1 threshold: red LED on (not flashing). Delivery not possible
A 15	ALARM_SLAVE_PUMP_ GROUPA_LEVEL1_THR2	The tank associated with pump A of the secondary controller has reached the level 2 threshold: red LED on (not flashing). Delivery not possible
828	ALARM_BUFFER_FULL	The dispensing buffer is full. All the dispensing operations stored in the controller must be uploaded to the cloud
829	ALARM_INACTIVE_PUMP	No pumps are active (Check system configuration on WebApp)
A30	ALARM_RTC_RESET	The time has been lost. The current time must be uploaded to the controller via a smartphone
A3 I	ALARM_RTC_FAULT	Time synchronization not possible (Contact the Service Department).
832	ALARM_SOFT_MEMORY_ DATA_FAULT(Cumulative)	Corrupted memory (data can be reset from WebApp backup)
A33	ALARM_HARD_MEMORY_ DATA_FAULT(Cumulative)	Corrupted memory (data can be reset from WebApp backup)
R34	ALARM_VERY_HARD_ MEMORY_DATA_FAULT (Cumulative)	Damaged memory (contact the Service Department)

With regard to the warning/alarm logics, it should be noted that one or more controllers can be connected to the same tank, or share common level contacts as outlined in the paragraph describing the system.

In these situations, warnings and alarms from one controller will be propagated to the other controllers sharing the same resource.

For more specific details on modes of connection and communication between controllers, please refer to the manual found in the system management WebApp.

Z



12 TECHNICAL SPECIFICATIONS

INTENDED USE	Implementation of a system for the dispensing and control of fluids fo private use not subject to special regulations such as ATEX for potentiall explosive environments.		
	DO NOT INS AS POTENT REGULATION	TALL CUBE B.SMART IALLY EXPLOSIVE S.	IN ENVIRONMENTS CLASSIFIED IN ACCORDANCE WITH ATEX
MAXIMUM VARIATIONS IN ELECTRICAL PARAMETERS	The Motors in t of supply volta SEE TECHNIC	the fuel dispensers acce ge of +/- 5% and maxim AL SPECIFICATIONS T,	pt maximum variations: um variations of frequency of +/- 2% ABLE BELOW
	CORRECT AN (VOLTAGE / FI	TALLATION, ALWAYS D SUITABLE FOR THE REQUENCY).	CHECK THAT YOUR MODEL IS SUPPLY EFFECTIVELY AVAILABLE
Signal	Standard conditions	Limits	Notes
Power supply input	220 V ac - 240 V ac for 230 V ac and 50 Hz	900 W - 4.2 A	The electronic board is equipped with a switching technology power supply that allows a wide range of voltages and frequencies and therefore makes the equipment robust for the high fluctuations of voltage or frequency present on the power distribution mains in many areas of the world
Electronic Key Interface	YELLOW key (iButton): Enabling input by PIUSI electronic key	Through a software pro- cedure, the yellow keys of the drivers are reg- istered on the PC and then these drivers are enabled on one or more dispensing stations	You can configure whether or not such a key is present
Level 1 contact input (only for versions where available)	Clean contact or Open Collector (NPN) electronic sig- nal If it is necessary to supply a level sen- sor, 24 V dc are also available on the ter- minal. The maximum current available to the sensor for its pow- er supply is 25 mA	About 1 mA at 5 V dc will be supplied on the clean contact (or on the open collector)	It is possible to configure whether or not this signal is present, and it is also possible to configure the type of signal (normally open or normally closed for versions where provided) Finally, it is possible to choose the action to be taken by the controller when it receives this signal: it can only give an alarm on the display or it can totally inhibit other dispensings if the Pump Block is set
Level 2 contact input (only for versions where available)	Clean contact or Open Collector (NPN) electronic sig- nal If it is necessary to supply a level sen- sor, 24 V dc are also available on the ter- minal. The maximum current available to the sensor for its pow- er supply is 25 mA	About 1 mA at 5 V dc will be supplied on the clean contact (or on the open collector)	It is possible to configure whether or not this signal is present, and it is also possible to configure the type of signal (normally open or normally closed for versions where provided) Finally, it is possible to choose the action to be taken by the controller when it receives this signal: it can only give an alarm on the display or it can totally inhibit other dispensings if the Pump Block is set



Z

24 V dc auxiliary power supply output	24 V dc auxiliary output to supply external electronic devices	Imax = 25 mA	The device to be supplied must not absorb more than 25 mA with 24 V dc power supply. Typically it could be a level sensor
Fuses	F1 (V ac power input) F2 (motor output) 20 F3 (AC/DC output) 80	800 mA T (delayed) A T (delayed) OO mA T (delayed)	
IP protection degree	IP 55		
Operating temperature	From -10°C to +40°C		
Storage temperature	From -20°C to +60°C		
Humidity	< 90%		
Wiring distances	Max. pulser distance	15 m	
	Max. level sensor distance	100 m	
Displaying and Metering limits	The floating point sec The maximum quantit measurement set litre 0.00	uence: 0.00 -> 99.99 -> 4 y that can be dispensed i s/gallons/pints 9,999 99.99	999.9 -> 9999 is 9999 units regardless of the unit of ●● 999.9 ● 9999
	PRESET: Presettable maximum quantity	9999 litres/gallons/ pints	
Memories	The electronic control - Up to 500 drivers - Up to 500 dispensir	ller can store: ngs	



13 USE 13.1 INTENDED USE

THE B.SMART CUBE DISPENSER HAS BEEN DESIGNED AS A DIESEL REFILLING STATION FOR NON-COMMERCIAL USE. DEDICATED APP AND WEB APP MAKE IT EASY TO USE, BY RETURNING A SUMMARY OF ALL DISPENSINGS.

IMPORTANT Environmental use conditions



Ambient temperature: min. -20°C / max. +40°C Relative humidity: max. 90% The limit temperatures indicated apply to the pump components and must be observed to avoid possible damage or malfunction.

13.2 NOT INTENDED USE

IMPORTANT Flammable liquids and explosive atmospheres



CUBE B.SMART HAS NOT BEEN DESIGNED IN ACCORDANCE WITH ATEX REGULATIONS OR TO OPERATE IN ENVIRONMENTS WITH A POTENTIALLY EXPLOSIVE ATMOSPHERE.

DO NOT INSTALL CUBE B.SMART IN POTENTIALLY EXPLOSIVE LOCATIONS.

The system was not designed for the dispensing of diesel, petrol, flammable liquids with flash point <55°C/131°F, or for operation in environments with a potentially explosive atmosphere.

Use in the conditions indicated above is therefore prohibited.

IMPORTANT Use not envisaged



Use of the system for purposes other than those intended is strictly prohibited. Any use other than that for which the system was designed and described in this manual is considered "IMPROPER USE", for which Piusi S.p.A. accepts no responsibility in case of damage to property, persons, animals or the system itself.

13.3 REASONABLY FORESEEABLE MISUSE

The smartphone is an indispensable tool for CUBE B.SMART to set up and record the dispensings managed by the system, <u>but it is forbidden to use it when dispensing near the dispenser.</u>

IMPORTANT



Use your smartphone only and exclusively to connect, authenticate and pair from your device to the dispenser. When refilling the vehicle, even with non-flammable liquids, the use of the telephone is in any case strongly discouraged as it can cause distractions that can be dangerous.

PIUSI CUBE 🙈 B.SMART

14 INSTALLATION

FOREWORD)
----------	---

CUBE B.SMART can be installed outdoors However, it is advisable to shelter it under a canopy to ensure a longer life and provide more comfort when refilling in bad weather. The installation of the dispenser must be carried out by specialised personnel and carried out according to the instructions provided in this chapter. If CUBE B.SMART is not sheltered under a canopy, a "display cover" is provided as protection for the display and keypad. All installation operations must be performed only by competent and

WARNING Staff authorised for installation



authorised staff, who must: Install the system in a dry, well-ventilated place;

Properly install the accessories necessary for the correct operation of the equipment.

Use solely the accessories provided with the system.

The use of unsuitable accessories not provided with the system is strictly prohibited. Piusi S.p.A. accepts no responsibility for harm to persons, property or the environment due to failure to observe this instruction. THE UNIT IS FOR PROFESSIONAL USE ONLY.

The unit must be installed in an adequately lit location, in compliance with the regulations in force.

The unit has been designed to be used in a dry place. If it is installed outdoors, provide adequate protective covering.

The motors are not explosion-proof. Do NOT install in places with explosion hazard.

14.1 DISPENSER POSITIONING

The positioning of CUBE B.SMART must ensure that:

- Removable panels can be easily removed for access to internal components when necessary.

- The maximum distances and differences in level between the station and the tank are respected

- A correct and solid fixing of the casing to the ground on a horizontal plane is possible.

 $\dot{\mbox{The}}$ positioning of the station determines the following parameters, which characterize each installation:

Hp: Priming height

Ls: Total length of the suction pipes - from the bottom valve to the station (in metres).

The following restrictions must be observed for the stations to function properly:

Hp max: no more than 3 metres Ls max: no more than 15 metres



14.2 STATION FIXING

Before starting installation, check that any packaging materials have not been trapped in the pipes. Prepare suitable support clamps or fixing brackets according to the position in which you want to fix CUBE B.SMART. The pipe coming from the tank must be aligned with the threaded inlet of the pump filter, located under CUBE B.SMART.



For wall mounting, it will be necessary to have a nr. 4 M8 screws.

For pedestal mounting, use no. 4 M6 screws.

Below are the diagrams with the center distances of the holes for a precise installation.

The pedestal is a Piusi accessory not included in the CUBE B-SMART supply.

PIUSI CUBE CUBE





Installation, use and maintenance

14.3 HYDRAULIC CONNECTIONS

	Always observe the following WARNINGS:
	- Use pipes and joints suitable for use under vacuum
	- Use pipes and accessories suitable for use with the handled liquid. Materials not suitable for such use may cause serious damage to the pump and may also
	- Do not use joints with conical threads that may damage the threaded port of the pump filter if forced beyond what is necessary.
	 Use wide radius bends to minimize pressure drop. Make sure that the suction line is perfectly clean and free from waste. Always install a bottom valve with filter at the end of the suction pipe. The valve must be placed on the bottom of the tank and have the same diameter as the pipe.
	- Before starting installation, check that any packaging materials have not been trapped in the pipes.
SUCTION LINE	The diameter of the suction line "Ds" must be selected according to the station model and positioning in relation to the tank. With reference to the values of "Hp" and "Ls" defined in point 12.1, the following MINIMUM DIAMETERS of the suction pipe must be strictly observed.
MAXIMUM	The maximum length of the pipe, the diameter of the pipe, the height
THE SUCTION PIPES	The latter must not be such as to create a vacuum greater than O.6 bar. Therefore, after having respected the minimum diameter for the pipe, specified in the "Recommendations and Warnings" below, the length of
	the pipe is the smaller, the greater the height difference Ho that the diesel must overcome and vice versa: indeed, the vacuum increases progressively by 0.08 bar for each meter of increase in the static height of the pump compared to the flush level of the diesel in the tank.
RECOMMEN- DATIONS AND	- The suction pipe must withstand a pressure of at least 10 bar and must have a minimum diameter NOT LESS than 1"1/4
WARNINGS	 The pipe must also be suitable for vacuum operation. Use pipes and accessories suitable for use with diesel. Materials not suitable for use with diesel can damage the pump or hurt people, as well as argue pollution.
	- Any bends in the suction line must have the widest possible radius in order

- Any bends in the suction line must have the widest possible radius in order to minimise pressure drop.

- Make sure that the suction line is clean and free from waste.

PIUSI CUBE CUBE

14.4 ELECTRICAL CONNECTIONS

ELECTRICAL CONNECTIONS

IMPORTANT

The electrical connections must be carried out in a workmanlike manner by specialised personnel, in full compliance with the regulations in force in the country of installation and with the instructions in the electrical diagrams in this manual.

The CUBE B.SMART Electronic Panel is NOT equipped with circuit breakers; it is therefore essential to install upstream CUBE B.SMART an electrical power supply panel equipped with a circuit breaker / disconnector with a current rating suitable for the electrical line and a differential switch suitable for the type of electrical load. Otherwise, provide for a quick disconnection system such as a socket/plug

IMPORTANT



The operations required for a correct wiring are described below:

- Opening CUBE
- Opening the rear cover of the controller
 - Closing the rear cover of the controller
- Closing CUBE

OPENING CUBE OPENING THE REAR COVER OF THE CONTROLLER

Loosen all 7 screws of the rear cover of the controller to access the compartment of the electronic boards



CABLE GLAND CONNECTION

Cable gland connection: the cable glands to be used for the various signals are indicated in order to obtain an optimised cable route inside the controller Pulser input and motor output are already wired.

Z





CONNECTOR

RS485

CANBUS connector

EN (translated from Italian)



PIUS



PIUSI CUBE CUBE





15 INITIAL CONFIGURATION

Before use, you must set up your system by connecting your CUBE B-SMART to the Smartphone App and the dedicated WebApp. This section explains all the steps required for a correct configuration.

To configure the system you need to:

- Switch the dispenser on;
- Configure the dispenser via APP;
- Configure the dispenser via WebApp

15.1 SWITCHING-ON

The following is the sequence of messages given by the system during the switching-on phase





Z

15.2 CONFIGURATION VIA APP AND WEBAPP

	Initially it is noc	a contraction the purchas	ad SVSTEM CODE to the
FOREWORD	controller.	essury to assign the porcha	
	To do this, your network, so che	smartphone must be conne ck the status at the bottom	cted to the 3/4G or Wi-Fi left of the screen:
		OFFLINE: APP/smartpha Wi-Fi	ne not connected to 3/4G or
		ONLINE: APP/ smartpho	ne connected to 3/4G or Wi-Fi
1	From your smar PIUSI APP.	tphone, go to the Play Store	e or App Store and search for
	The icon is:	. Download and inst	all the application.
2	Activate your sr Then follow the	nartphone's Bluetooth and (steps described below:	GPS and open the APP.
* * * * * * * * * * * * * * * * * * *	The conditio of use are shown at the		
Privacy policy fer accordence with Regulation (10) 2016/ Patterseries and of the C Patter SHA, (2017 No. C	BSWART	PIUS	PIUSI
registered office is on detDT backward, he file Construiter, he file Construiter, he file the failing insplations and 14 of D2 Regular The Data Con- denoviation Marcolar (2004), and Denoviation Marcolar	tivacy policy etroller in PRUS S.P.A. (VAT no. 63, with registered office in via		
you have provided will Particular the following method in the state of	o. 16/3, 44025 Bezzer 30 0276 0 0376-534561 - Taxa 30 0376 mil customerang galaxi.com 11. Data Controller winsider in CEAGBOUP S. P.A. 1763570235, with registered	WELCOME VI24	ACCESS:
	121 Trente, Località Pulazzine na. 120 (K Email privez) dedosprop.R Version: 1.1.9 t changa: 18/03/2019		DRIVER MANAGER
Scroll through the conditions of use to the		Temporary welcome start screen	Press MANAGER
end and then press I ACCEPT			
₩∎∾⊗► ≭ ← <u>68</u> 8.5W		 W S I # € * 0 * NARE 	₩ 18 N 1 IF X 0 1 1000 1550
Allow plusia access this location?	pp to device's	AVAILABLE DISPENSER	AVAILABLE DISPENSER
	ALLOW	Searching B.Smart	CUBE 04010141
in progre	•	in progress	
			(a) one
< 0			0
If not already act before, you are a accept the use of by pressina I CO	cepted sked to the position NSENT		List of dispensers within Bluetooth range.



PIUSI







PIUS

Installation, use and maintenance



The dispenser is uploaded in the cloud





Other operations by the manager are shown (in addition to the discovery of the dispenser and registration in the cloud) The operations are:

1 - Meter calibration

2 - Forced synchronization of data in addition to all automatic synchronizations

3 - Firmware updates of the electronic controller Press HOME to return to the APP HOME HOME page of the APP



Z

15.3 CONTROLLER CONFIGURATION VIA WEBAPP

FOREWORD

For detailed account registration instructions, see the Registration Guide (MO548)

After assigning the SYSTEM CODE to the controller, you must check if the controller is present in the cloud. the connect from your browser: Google Chrome, Microsoft Edge or Mozilla Firefox to the following link: https://bsmart.piusi.com/

The WebApp login screen opens:

<u>PIUS</u>	SB.SMART
Username	
admin.ute2	
Password	
(
□ Show password	
Site Code	
ute00002	
Ľ	
When opening the WebApp enter: user name, password and site code, then press LOGIN	-









Full details of the WebApp functions (such as managing drivers, registration numbers, dispensing reports and configurations) can be found in the dedicated manual, loaded in the dedicated area of the WebApp.

16 START-UP

FOREWORD	For a correct start-up of CUBE B.SMART, in addition to the activation of apps and webapps, it is necessary to perform some simple operations.	
POWER SUPPLY	Once the electrical connections have been made, it is possible to power the CUBE B.SMART by means of the main switch that the installer must arrange on the upstream line. The system will be turned on when the backlit LCD screen installed on the front panel is activated. Even if you remove the nozzle from its housing, the pump will	
	NOT start, as it is not enabled by the B.SMART system.	
WETTING	CUBE D.SMART is equipped with a self-priming pump that facilitates the first start-up activities. It is therefore not necessary for the suction pipe to be completely filled with diesel for starting up. For rapid priming, particularly in installations with a significant height difference between the pump and the tank, it is nevertheless important that the pump is "wet", i.e. that a minimum quantity of diesel is present inside the impeller chamber. The pump is delivered properly "wet" and ready for use. If, however, the installer believes that the pump is completely dry, for example due to prolonged storage, he must wet it as he deems most appropriate.	

16.1 FIRST PRIMING

- For priming the pump:
- Pull the nozzle out of its housing
- ACTIVATE THE DELIVERY (VIĂ APP, WEBAPP OR I-BUTTON KEY)
- Raise the control lever

- The pump will start immediately and continue running indefinitely until the control lever is turned to the OFF position



- Operate the lever of the automatic nozzle, keeping the spout inside a suitable container or the suction tank itself. Initially, air will come out of the nozzle and after a certain time the DIESEL will start to flow out.

The first priming of the pump must be carried out by competent personnel who shall be present at all stages. If the air-only delivery phase should take longer than a couple of minutes, STOP the PUMP and check that:

• The pump does not run completely dry, but is at least "wet" with diesel. • The suction pipe guarantees total absence of air infiltration and is

 The suction pipe guarantees total absence of air infiltration and is completely immersed.

The filters are not clogged.

• The suction and/or discharge pipes are not blocked.

• The installation (height difference, diameter and pipe length) complies with the limits described in chapter 14.

• The shut-off valve is closed.

Continue dispensing until the flow is constant and free of air. Set the control lever to the OFF position: The pump stops. Re-position the nozzle in its housing.



17 FLOW METER CALIBRATION



IMPORTANT



The configurability of the B.SMART system allows the User to ENTER additional optional data (vehicle number plate, mileage, quantity to be dispensed). See DIGITAL APP manual FOR ALL DETAILS. If these options are not set, B.SMART recognizes the authorized USER and immediately enables the pump, allowing the dispensing.

IMPORTANT



Enabling does not result in the immediate start of the pump; the pump is controlled by a switch (located in the nozzle housing) operated by the user.

The pump starts (if previously enabled) as soon as the control lever is in the ON position, while it switches off as soon as the control lever is in the OFF position. No further manual action is necessary to start or stop the pump.

19 DRIVER ACCESS 19.1 FIRST DRIVER ACCESS FROM APP

FOREWORD

To use the APP as a driver, the manager must have created the driver profile via WebAPP, (see WebAPP manual, chapter 1, section 1.1 under ADD NEW DRIVER).

Furthermore, to do this, your smartphone must be connected to the 3/4G or Wi-Fi network, so check the status at the bottom left of the screen:









PIUSI



PIUSI CUBE 🔊 B.SMART







PIUSI CUBE 🔊 B.SMART



In the OFFLINE conditions, the dispensings will not be immediately uploaded to the cloud, rather as soon as that smartphone has the APP open in an area with 3/4G signal, or as soon as a new smartphone connected to the 3/4G network or Wi-Fi connects to the controller.



19.3 DISPENSING VIA USER KEY (I-BUTTON)

When the manager creates the driver he can add an electronic key (iButton) which is used to perform the access. To do this, just add the last 7 digits of the hexadecimal code associated with the key to the input of the driver's card in WebAPP (see WebApp manual, chapter "ADD NEW DRIVER").

Nome *		
Mario		
Cognome *		
Rossi		
Telefono *		
0123456789		
Email •		
prova0@piusi.com		_
Codice ibutton		0 0 0
002B4BE	15701	

The i-Button serves as a means of authentication to replace the smartphone. For the dispensing, simply place the iButton on the reader in the controller: authentication takes place, then you can start dispensing.

Dispensings are uploaded to the cloud as soon as a smartphone with an active data connection connects to the controller.



Dispensing via the iButton key is allowed only when the procedures indicated in paragraphs 14.2, 14.3 and 18.1 have been successfully completed using a smartphone and the WebApp.

These procedures are fundamental, as they allow the Manager to configure the system and manage its controllers while at the same time ENABLING THE DRIVER TO DISPENSE VIA A SPECIFIC CONTROLLER.

NOTE

CAUTION



Dispensing via iButton is recommended only when strictly necessary in those case where it is impossible to dispense via a smartphone.

This is because dispensing with iButton does not allow for direct cloud updating, thus compromising the real potential of the system.

PIUSI CUBE COBE





Ä



20 MAINTENANCE 20.1 ROUTINE MAINTENANCE

		electrical or electronic personnel.
operations IMPORTANT	Δ	Maintenance of electrical parts may only be carried out by qualified
Staff authorised for maintenance		Maintenance operations must be performed solely by specialist staff. Any tampering may impair the performance and endanger persons and/or property, as well as invalidate the warranty.
		mandatory. In any case, bear the following minimum recommendations for efficient system operation in mind.
		be disconnected from all sources of electrical and hydraulic supply including the battery. During maintenance, using the personal protective equipment (PPE) is
information		maintenance. Before carrying out any kind of maintenance, the distribution system must
Safety		The distribution system was designed and produced to require minimal
		CUBE B.SMART has been designed to minimize maintenance activities. For maximum efficiency and safety of the station, however, the following routine inspection and maintenance operations must be carried out regulated

Before performing any maintenance, make sure to disconnect the device from the power line to switch it off and isolate it from the power mains. If the device is sold without cable, periodically check the grounding circuit in accordance with the regulations in force.

- Lower the display cover
- Loosen the 2 screws on the right side (indicated with the arrows)
- Open the inspection side of the CUBE B.SMART
- To close again, proceed in the opposite direction.



PUMP AND PIPES Check and keep the pump, the pipes and other internal station components clean. Check that the flanged or threaded connections do not show leaks and that the hoses are intact and not damaged (refer to the manual for pumps and flow meters).

AND CLOSING OF CUBE B.SMART

OPENING

PIUSI CUBE CUBE

Z

DISPENSING HOSE AND NOZZLE

- Keep the dispensing hose and nozzle clean, checking in particular that:
- The hose is intact and not damaged by the transit of vehicles
- Threaded connections are tight and do not show any leaks

- Swivel connections (at the station exit and on the nozzle) rotate freely and do not show any leaks

- The hole in the automatic stop probe at the end of the nozzle hose (spout) is always clean.



FILTERS

CUBE B.SMART is equipped with some filters, having different functions. Checking and cleaning (or replacing) each of them is of utmost importance to ensure:

- Protection of the various station components (pulser, pump, nozzle)
- Maintaining station performance over time (maximum flow rate)
- The protection of the engines in which the diesel dispensed is used

PUMP FILTER (ONLY FOR AC VERSIONS)

IMPORTANT

Dirty or partially clogged filters can increase pressure drop so that the maximum flow rate dispensed by the pump is significantly reduced. Dirty or clogged filters at the pump suction also generate a significant vacuum increase in the suction which can also cause a significant increase in the noise level of the pump.

It is installed in the pump body as standard equipment of the PANTHER pump. To check and clean it:

- 1 Loosen the two screws of the filter cover and remove it from the body.
- 2 Pull the mesh filter out, using pliers.
- 3 If it is necessary to clean it, wash it and blow it.

4 - Carefully replace the filter in the housing of the pump body, taking care that it does not protrude from the housing of the cover.

5 - Check and clean the flat seal, re-position the cover and tighten the screws





PULSER FILTER The pulser filter provides additional protection against the risk of foreign bodies entering the oval gear pulser. As this filter is installed downstream the pump suction filter, regular checking and cleaning is not required. If the need arises and/or in case of extraordinary maintenance, it can be cleaned as described in the PULSER MANUAL, after disassembling the roof of CUBE B.SMART, using the screws located above it (see exploded drawing).





PULSER

The pulser flow meter is a measuring instrument characterized by high precision, guaranteed by the accuracy of machining and assembly. No routine maintenance is normally required. Calibration, normally carried out during the installation of the station, can be carried out again if precision checks, to be repeated every 3/6 months, recommend so. Calibration is performed electronically via the management system, and does not require any intervention on the pulser. For any information, refer to the K6OO flow meter manual.

20.2 EXTRAORDINARY MAINTENANCE

IMPORTANT



Maintenance of electrical parts may only be carried out by qualified electrical or electronic personnel.

Before performing any maintenance, make sure to disconnect the device from the power line to switch it off and isolate it from the power mains. If the device is sold without cable, periodically check the grounding circuit in accordance with the regulations in force.

 Firmware update via smartphone, see dedicated section in the APP manual

2 - Fuse control: to access the fuses it is necessary to open the unit and access the parts that are live during normal use, to operate safely disconnect the general power supply from the unit

PIUSI CUBE 🔊 B.SMART

20.3 CHECK AND REPLACEMENT OF FUSES

For checking and replacing fuses on electronic boards:

1 2 Cut the unit off the power supply; Open the CUBE B.SMART door by loosening the 2 side screws to access

the controller



Loosen the screws of the metal rear cover to access the compartment of the electronic boards



Check the condition of the 3 fuses and replace them if necessary





- F1 · Power supply fuse at AC power supply input 800 mA T (delayed)
- F2 · Motor fuse 20 A T (delayed)
- F3 Power supply fuse at AC/DC converter output 800 mA T (delayed) Tighten the screws of the metal rear cover to close the compartment of the electronic boards and power

5

21 TROUBLESHOOTING

21.1 MECHANICAL AND HYDRAULIC PROBLEMS

PROBLEM	POSSIBLE CAUSES	POSSIBLE SOLUTIONS
THE MOTOR DOESN'T TURN	Lack of power	Set the ON/OFF switch on the pump to the ON position. Reset the external differential switch Check electrical connections
	Fuses blown	Replace fuses in the electric panel
	Motor problems	If the rotor is blocked, disassemble and check for damage or obstruction and reassemble. Contact the customer service.
THE MOTOR DOES NOT START AGAIN WITH THE NOZZLE CLOSED	Supply voltage too low	Check that the supply voltage is not 5% lower than the normal V.
FLOW RATE LOW OR ZERO	Excessive suction vacuum	Lower CUBE B.SMART in relation to the level of the tank or increase the section of the pipes.
	High pressure drops in the circuit	Use shorter or larger diameter pipes
	Suction pipe resting on the bottom of the tank	Raise the suction pipe
	Low suction tank level	Refill the tank.
	Air entering the suction pipe or the pump	Check the tightness of the connections and the level of the diesel in the tank
	Low motor rotation speed	Check the voltage to the motor: adjust the voltage or/and use cables with a greater section
	Check valve blocked	Clean or replace
	Tank filter clogged	Clean the filter
	Pump filter clogged	Clean the filter
	Fluid loss	Check the tightness of the connections and the condition of the rubber hoses
	Flow meter chamber obstructed	Clean the flow meter chamber
INSUFFICIENT	Presence of air in suction	Check the tightness of the connections
FLOW METER ACCURACY	Calibration insufficient	Calibrate the flow meter
THE NOZZLE TRIPS TOO OFTEN	Automatic stop probe hole blocked	Clean the automatic stop probe hole from dirt and/or obstructions

Z



21.2 ELECTRICAL/ELECTRONIC CONNECTIONS

PROBLEM	POSSIBLE CAUSES	POSSIBLE SOLUTIONS	
CUBE B.SMART does not switch on	Lack of power DUE TO: Incorrect connections Upstream circuit breaker in OFF position Fuse on power supply interrupted	Check connections Set circuit breaker to ON position Check fuse	
A driver with an electronic key is not recognized	The electronic key has not been associated by the MANAGER The electronic key has been damaged and is no longer recognized by the system	The system MANAGER associates the key to the driver Change the electronic key, the system MANAGER will also have to delete the code of the old key and associate the new key to the driver via WebAPP	
The motor does not start	I thas not been connected correctly to the terminals provided Check connections, or (if present) check that the position of the motor switch is in the ON position		
Does not count during dispensing	The Pulser that emits the counting signals is not correctly connected The Pulser that emits the counting signals is NOT compatible with the electronics	Check connections The electronics are designed to receive a "clean contact" or "Open Collector" signal as input. If the input signal is an incompatible voltage signal, in addition to the malfunction the electronic board is likely to be damaged	
The counting is not accurate	Pulser board damaged The system is NOT calibrated	Replace Pulser board Calibrate the system according to the procedure	
The counting is not accurate even after calibration or is only accurate at low flow rates	The signal coming from the Pulser is out of the ranges acceptable by the electronics	The signal received by the pulser must be with max. frequency 300 Hz and Duty Cycle between 10% and 90%. Beyond these ranges, the system does not process the received data correctly. The system must fall within the correct ranges by interposing other electronic interface devices (contact the Technical Assistance for these particular options)	

21.3 PROBLEMS WITH THE SMARTPHONE APP

PROBLEM	POSSIBLE CAUSES	POSSIBLE SOLUTIONS
APP signals that the driver is not enabled	The manager didn't enable the driver to the dispenser	The MANAGER enables the driver to the dispenser via WebAPP in the section dedicated to drivers
Dispensing from smartphone is not present in the cloud	Dispensing was made with the smartphone with data connection disabled or in an area with poor 2G/3G/4G coverage	Dispensing will be in the cloud as soon as the APP is opened in an area with 2G/3G/4G coverage. In the meantime it will be stored on the memory of the smartphone and also in the memory of the dispenser
APP does not see the controller, but Bluetooth is	Bluetooth module on the smartphone is not compatible with the Bluetooth module of the dispenser	The Bluetooth module of the dispenser is compatible with all smartphones that feature the Bluetooth version 4.0 or later (smartphones from 2011 onwards)
active	Dispenser occupied by another driver	The dispenser will be visible from the smartphone only when the driver who is using it has finished operations



Z

22 FAQ

1	If a driver changes smartphone, is it necessary to create a new account for that driver or can he continue to use what he already had? IMPORTANT	If the driver changes manager, who will del association in the WebA of the WebApp, chapter The driver can then log smartphone. After the manager ha association, the driver i other than the previ credentials is prevente access with the old sma new smartphone, then I the initial smartphone	smartphone, he must notify the site ete / reset the smartphone - driver pp (procedure described in the manual "DRIVER DETAIL"). in from the APP installed on the new as deleted the smartphone - driver s obliged to access with a smartphone ous one, because access with his ed on the old device. To be able to artphone, you must first access with a be reset as user and finally enter with
2	What if a driver loses his smartphone?	If the driver loses his sm site manager, who will i driver association. The p that indicated in guestio	nartphone, it is necessary to notify the mmediately remove the smartphone - procedure to be followed is the same as on 1.
3	What if the APP reports that the smartphone is not recognized?	W © N 2 @ 20 (0) 1030 Comparison 2 @ 20 (0) 1030 Comparison 2 @ 20 (0) 1030 SMARTPHONE DISABLED	Generally it is an error shown when the driver has changed smartphone but has kept the same phone number and the site manager has not reset the user. In this case the driver must contact the manager and inform him of the error shown by the APP. The manager will remove the smartphone - driver association to allow the driver to login from the new smartphone. The procedure to be followed by the manager is the same as that indicated in question 1 (see also the WebApp manual, chapter "DRIVER DETAIL")

4	When are dispensings made	There are 4 cases in which the dispensings are uploaded to	
	via iButton or smartphones	the cloud:	
	without an internet connection	 Each time the APP is opened, if the data connection is 	
	uploaded to the cloud?	active	
	•	 APP open in the background and data connection active 	
		 Data synchronization by the manager by pressing the 	
		SYNCHRONIZATION key	

• Every time a driver connects to the controller and the internet connection of the smartphone is active As you can see from the list, the dispensings can be uploaded to the cloud even if your smartphone is not connected to the controller.





23 SCRAPPING AND DISPOSAL

Foreword

Disposal of the packaaina **Disposal** of metal parts Disposal of electrical and electronic components Environmental information for customer resident in the European Union

Disposal of

further parts



If the system is scrapped, its components must be consigned to companies specialised in the disposal and recycling of industrial waste and, in particular: The packaging is made of biodegradable cardboard that can be handed over to companies for the normal recycling of cellulose.

The metal parts, both painted and stainless steel, can normally be recycled by companies specialised in the metal scrapping sector.

These must of necessity be disposed of by companies specialised in the disposal of electronic components, in compliance with the indications of the directive 2012/19/EU (see directive text below).

European Directive 2012/19/EU requires equipment marked with this symbol on the product and/or packaging not to be disposed of together with mixed municipal waste. The symbol indicates that this product must not be disposed of together with normal domestic waste. It is the responsibility of the owner to dispose of both these products and other electrical and electronic equipment through the specific collection facilities indicated by the government or local public authorities.

The disposal of Waste Electrical and Electronic Equipment (WEEE) as domestic waste is strictly prohibited. This type of waste must be disposed of separately.

Any dangerous substances that may be present in the electrical and electronic equipment and/or incorrect use of such equipment may potentially have serious consequences for the environment and human health.

In the case of unlawful disposal of such waste, the sanctions envisaged by the regulations in force may be applied.

Further product parts, such as hoses, rubber seals, plastic parts and wiring should be handled by companies specialising in industrial waste disposal.

Z



EXPLODED VIEWS 24



© PIUSI S.p.A.

EN. This document has been written with the utmost attention concerning the accuracy of the data contained in it. PIUSI S.p.A. accepts no responsibility for any errors or omissions however.

- IT Scarica il manuale nella tua lingua!
- ΕN Download the manual in your language!
- CS DA Stáhnout příručku ve vašem jazyce!
- Download manualen på dit sprog! Laden Sie das Handbuch in Ihrer Sprache herunter! DE ES FI FR
- iDescarga el manual en tu idioma!
- Lataa käsikirja omalua en tu tu tu oloma: Lataa käsikirja omalla kielelläsi! Téléchargez le manuel dans votre langue! Download de handleiding in uw taal! NL
- PL Pobierz instrukcję w swoim języku!
- ΡT Baixe o manual em seu idioma!
- RU Загрузите руководство на вашем языке



support/search-manuals



Fluid Handling Innovation



BULLETIN MO546 EN_03

09.2020