

## 1. (2") Diesel Bowser / Mobile Dispenser Electronic Metering Group

### 1.1. 2" P.D. METER

#### 1.1.0 SBM 75



#### SBM 75 METER EFVn

Accuracy:	± 0,15%
Repeatability:	0,04%
Size:	2"
Body:	Aluminium
Rotor:	Aluminium
Bearings:	Stainless steel
Flanges:	Square 90x90 mm
Leaflet:	PR/CO/0001/EN

Code A1B1C1D1E1F1G33H2J0K0L1M1

Code	Item	Description
A1	Temperature class	Standard
B1	Wetted parts	Standard
C1	Vanes material	Xenia
D1	Gaskets material	NBR
E1	Shaft seal	Magnetic coupling by EM6422 pulses emitter
F1	Flow direction	Left to right
G33	Execution	EFVn: arrangement for pulse emitter EM6422, strainer and preset valve with pneumatic actuator Air pressure: 400 ÷ 700 kPa
H2	Strainer basket	Carbon steel perforated plate and AISI 304 filtering net of 60 mesh
J0	Solenoid valves	None
K0	Flange adapter	None
L1	Calibration	Isoil impianti standard calibration: performed at n°4 different flow rates
M1	Painting	Blue RAL 5019 / yellow RAL 1021, C3 "m" / C4 "l", according to ISO 12944
	Documentation (in english)	EU declaration of conformity, PD meter calibration report, user and maintenance manual

## Application parameters

Name	Description
AMBIENT TEMPERATURE (°C)	-10 +50
LIQUID TEMPERATURE (°C)	-10 +50
PRESSURE (kPa)	0 1000
LIQUID	DIESEL
CONFIGURATION	ELECTRONIC
ELECTRONIC EXECUTION	EFVn
FLOW RATE (L/min)	300
MIN FLOW RATE (L/min)	50
MAX FLOW RATE (L/min)	500
MIN WORKING TEMPERATURE (°C)	-10
MAX WORKING TEMPERATURE (°C)	50
MAX WORKING PRESSURE (kPa)	1000

### 1.1.1. EM6422



## PULSES EMITTER EM6422

### Compliant to:

Directive 2014/34/UE "ATEX" II 2 G Ex db IIB T6 Gb, Tcable:80°C,  
(explosive atmospheres) Certificate: INERIS 06ATEX0032X

IECEx (explosive atmospheres) Ex db IIB T6 Gb,  
Certificate: INE 17.0028X

Directive 2014/30/UE "EMC" (electromagnetic compatibility)

### Ambient characteristics:

Operating temperature: -40°C ÷ +75°C (-40 ÷ 131°F)

Storage temperature: -40°C ÷ +75°C (-40 ÷ 131°F)

Humidity: 5 ÷ 95% UR

### Mechanical characteristics:

Protection degree: IP66

Dimensions (flanges not included): Ø90x74mm

Housing: anodized: Aluminium

Maximum pressure: 2100 kPa

Maximum rotational speed: 1000 rpm

### Electrical characteristics:

Power supply: 5÷30 Vdc

Maximum power: 0.5 W

Datasheet: DS/EM/0002/EN

## Code A2211

Code	Item	Description
A	Model	Standard
2	Pulses Revolution	256 pulses/rev
2	Pulses transmission	CAN bus transmission Communication speed: selectable (50K or 125K) Protocol: compatible with VEGA T, VEGA 3, VEGA T2
1	Cable entry	Cable entry ½" NPT
1	Gaskets	FKM LT
	Documentation (english)	UE conformity declaration and installation manual

## 1.1.2. VEGA T2 TRUCK



### VEGA T2 - TRUCK ELECTRONIC COUNTER

**Compliant to:**

Directive 2014/34/UE "ATEX" (explosive atmospheres)  
IECEX (explosive atmospheres)

Directive 2014/32/EC Measuring Instruments (Evaluation Certificate available):

Directive 2014/30/UE "EMC" (electromagnetic compatibility)

**Ambient characteristics:**

Operating temperature: -40°C ÷ +55°C (-40 ÷ 131°F)  
Storage temperature: -40°C ÷ +55°C (-40 ÷ 131°F)  
Humidity: 5 ÷ 95% UR

**Mechanical characteristics:**

Protection degree: IP66  
Dimensions: 247 x 247 x 94 mm  
Weight: 7,5 kg approx.  
Housing: Aluminium anodized  
Cables entries: N° 7 ½" NPT

**Electrical characteristics:**

Maximum power: 18 W

**General characteristics:**

Display: Colour graphic Liquid Crystal Display (LCD) 800x480 pixels with LED backlight

Push-buttons: N°23 solid state (10 numeric + 7 function keys), (1÷6 soft-keys)

Serial comm. lines: N°4 EIA RS232/RS485 switchable

Pulses inputs: N°2 inputs two channels phased of 90° ± 30°, Fmax 5kHz

Digital inputs: N°6 for interlocks or signals

Power outputs: N°6 Mosfet DO

Digital outputs: N°4 Open Drain DO to send pulses at distance

Ethernet: N°1 port 1000BASE-TX

CAN-Bus: N°2 lines (for EM6422 CAN-bus and IC-E)

USB port: N°1 Hi-Speed USB port (Type A)

Leaflet: PR/VE/0003/EN

II 2 G Ex db ib IIB T6 Gb  
Certificate: INERIS 21ATEX0027X  
Ex db ib IIB T6 Gb  
Certificate: INE 21.0055X  
Accuracy class: 0,3, 0,5, 1,0  
Mechanical class: M1  
Electromagnetic class: E2  
Humidity class: H3  
Measuring systems: interruptible and non interruptible