

## 01146

- Servo Gauge for Level, Temperature and Density measurement
- Temperature service down to -200°C
- Maximum pressure service 30 K Pa (300 mbar)
- Roof reading unit
- Provides continuous data measurements on all level liquid ranges
- Gauge computes and records up to 250 live values from density and temperature sensors located in the mobile sensing head.
- All datas measured are displayed locally.
- Flange 6" ANSI 150# FF

**- Gauge head with two compartments :**

1. Product compartment, subject to tank vapour, gives access to:
  - Density and temperature sensing head
  - An accurate perforated tape with multi-wires
  - Tape drum
  - Sprocket wheel
  - High and low motor limit lever
  - Inspection window
2. Flameproof compartment containing :
  - Electronic circuitry with servo motor, I.S. barriers and built in transmitter.
  - Slip-ring unit
  - Display with 8 Alphanumerics characters



**Construction:**

- Body and internals: aluminium
- Intrinsically safe sensing head: stainless steel
- Perforated tape: stainless steel coated with Tefzel (PTFE)
- Protection : IP 65

**Certification :**

- ATEX approval:
- Category: Ex II 2(1)G
  - Marking: EEx d[ia]IIB T6
  - INERIS 03ATEX0014 X

**Note:**

When supplied with the sensor  
 Category: Ex II (1)/1G  
 Marking EEx SYST (ia IIB T6)  
 INERIS 03 ATEX 0061  
 Compliant to : Low Voltage Directive 73 / 23 / EEC and Electro Magnetic compatibility 89/392/EEC

Dimensions : 650 x 450 x 700 mm  
 Net Weight : 90 ka

**Ordering code**

Model	Product Description
01146	Level Temperature Density (LTD) Gauge
<b>Code A Cable gland taping &amp; Flange Machining</b>	
1	3/4" NPT (for 3 cable entries) & FF Flange
2	M20X150 (for 3 cable entries) & FF Flange
3	1" Gas (for 3 cable entries) & FF Flange
4	3/4" NPT (for 3 cable entries) & Flange spiral wound 125 AARH
5	M20x150 (for 3 cable entries) & Flange spiral wound 125 AARH
<b>Code B Communication P.C. Board</b>	
1	20 mA current state loop - Whessmatic 660 protocol
2	RS 485 - Whessmatic 660 protocol
<b>Code C Secondary Communication P.C. board</b>	
1	20 mA current state loop - Whessmatic 660 protocol
2	RS 485 - Whessmatic 660 protocol

Code D		Power Supply	
1		80/152 VAC - 50/60 Hz	
2		160/276 VAC - 50/60 Hz	
Code E		Tank Height (between mounting flange and datum plate)	
0		up to 20 m	
1		From 20,1 m to 30 m	
2		From 30,1 m to 40 m	
3		From 40,1 m to 50 m	
4		From 50,1 m to 65 m	
Code F		Isolating ball valve	
0		None	
1		6" ANSI 150# FF/RF - St St	

Choose options to complete the product ordering code  
 Example: 01146-12-1141



Isolation ball valve:  
 The valve can be equipped with a safety device, preventing the valve from being closed while the tape is still in the tank.