Density Sensor

Real time measure of volume & mass

SENSOR

- Extremely compact solution
- By pass installation onto the meter manifold, by means of one of the existing connections
- No need of pipe work or modification
- Retrofit kit for ISOIL PD meters
- No need of extra I/O boards for VEGA T. Modbus RTU available as standard
- VEGA T Firmware version: from Mx9x05 Tx01.58

OPERATIONS

- Observed density acquisition over Modbus RTU and display
- Mass unit of measurement: grams, kilograms, pounds, tons
- Mass calculation:
  * Gross volume multiplied by observed density
  * Gross Standard Volume calculation (only model 42x7)
- Calculation according to ASTM D1250-04 MPMS Cap. 11.1
- Standard density calculation starting form observed density and observed temperature
- Simultaneous display of volume & mass
- Printout of volume and mass
- Printout of average density of the delivery.

ISOIL IMPIANTI

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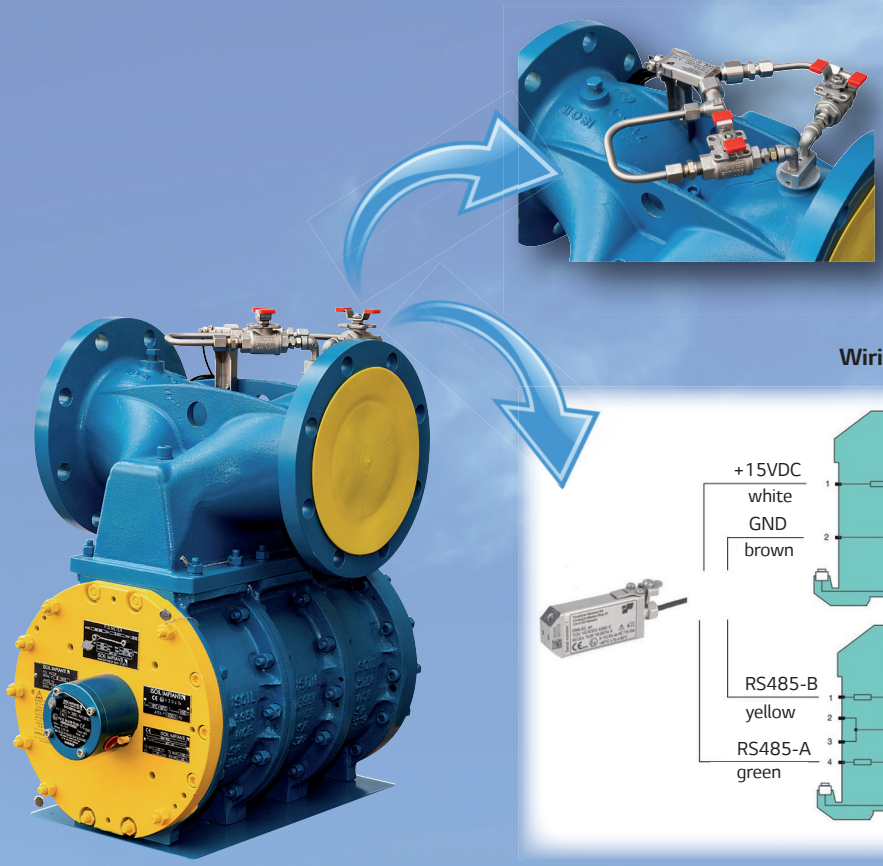
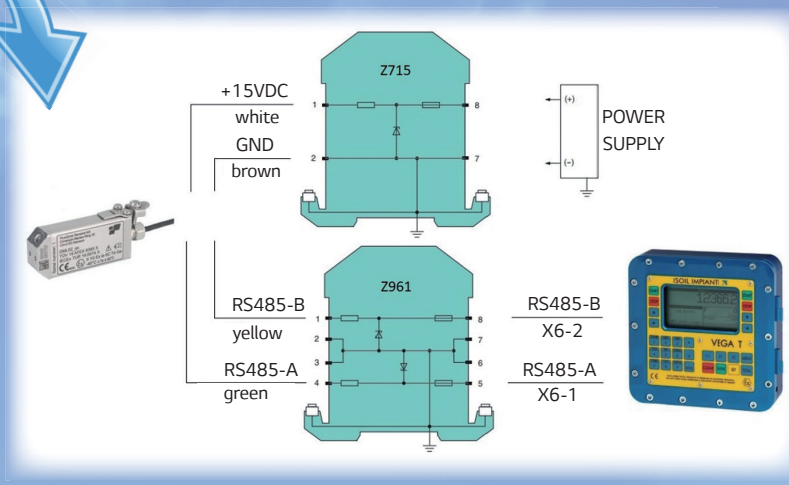
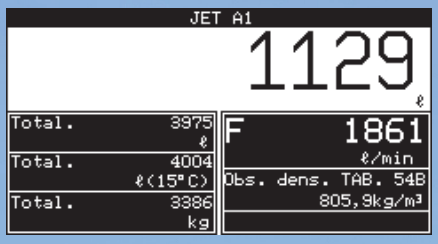
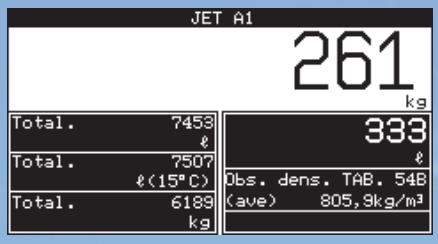


Wiring Diagram

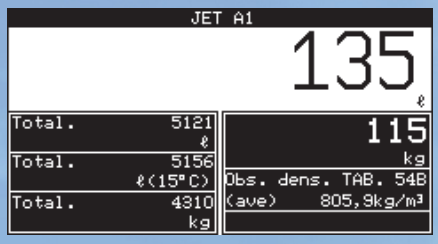




Volume, Flow Rate, Observed Density



Mass, Volume, Average Observed Density



Volume, Mass, Average Observed Density

TECHNICAL FEATURES

Max measurement deviation

Density:	*±0,2 kg/m³ or +[0,0075 x abs(T-25°C)] kg/m³*
Temperature:	*± 0,15 °C or +[0,005 x abs(T-25°C)] °C*

Repeatability

Density:	*±0,1 kg/m³*
Temperature:	*± 0,05 °C*

Other data

Housing:	*Stainless steel*
Marking:	*ATEX : II 1 G Ex ia IIC T4 Ga* *IECEx: Zone 0 Ex ia IIC T4 Ga*
Serial Communication:	*Modbus RTU RS485*