

SERIES T7W

T7W is an online water determination transmitter in crude oil pipes. It is suitable for extreme pressure and temperature process conditions and it is equipped with microcontroller digital electronic which allows a very accurate and reliable management of the capacitive sensor, also giving diagnostic information about the transmitter functioning. It has a standard 4-20mA analog output and is fully managed remotely through the standard HART[®] communication protocol ("Highway Addressable Remote Transducer"). Temperature compensated.

SOME APPLICATION FIELDS

Oil production, Oil/water separators, Aviation fuel.
 Chemical and petrochemical industry,.

TECHNICAL FEATURES

- Supply: 12÷35Vdc
- Output: 4÷20mA 2 wire system (max 21.5mA)
- HART[®] protocol communication Revision 6.0
- Max Load: $R_{Lmax} = (V_{dc} - 12V) / 21.5mA$; with HART[®] $220\Omega < R_L < 600\Omega$
- Sensor: capacitive validated through fluidodynamic models
- Galvanically isolated probe input
- 10 points calibration
- Measuring range: 0÷45% concentration of water in oil depending on gas concentration
- Total Accuracy < 1%FS
- Response time: <256ms (Std Hart[®])
- Measured value update frequency: ~1s
- Rangeability: 5:1
- Process temperature: -10÷150°C
- Ambient temperature: -40÷85°C
- Temperature compensated: standard 10 to 70°C
- Maximum pressure: 1000bar@150°C
- Process operative pressure: 700bar@150°C
- Pressure coefficient: +1%/100 bar
- Protection degree: IP67



SIL IEC 61508



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DIMENSIONAL DRAWINGS

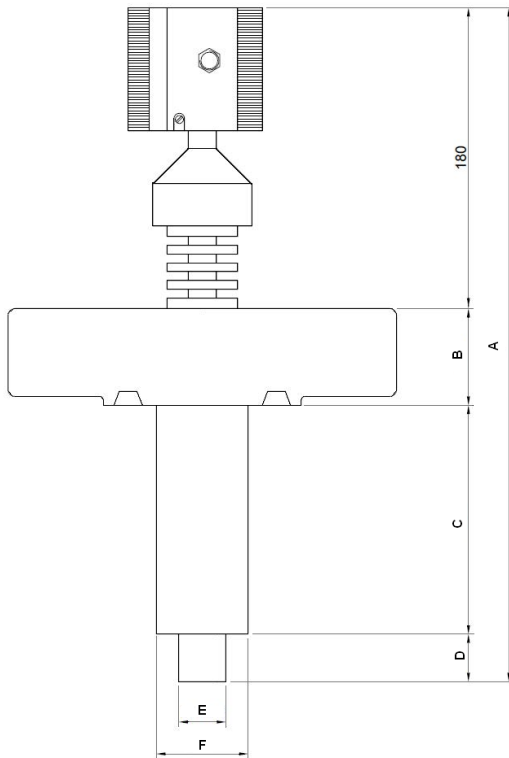


Fig. A

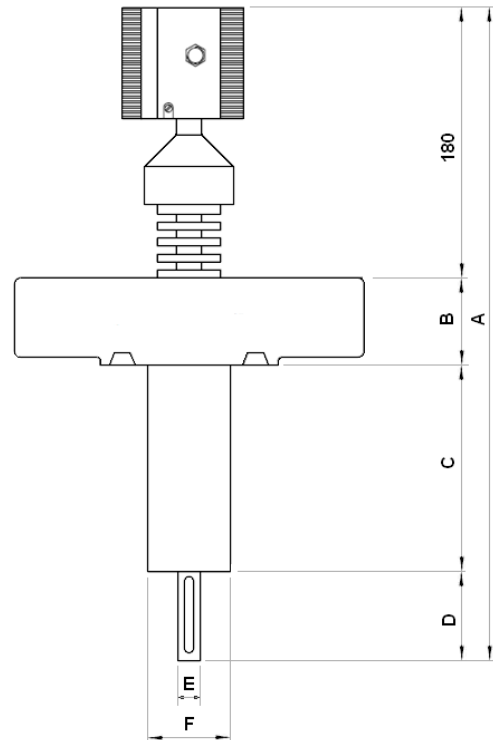


Fig. B

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