

NEW at BEDIA

BEDIA Intelligent TankSensor ITS65 for Hydraulic - and Engine oils

- No mechanical moving parts
- Robust design for heavy duty applications
- Suitable for hydraulic - and engine oil
- Precise indication of medium level
- Precise indication of the medium temperature
- Linear output signal even with non linear tank geometry
- Integral MIN or Max switching point



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Technical Data:

Measure principle:	ϵ_r – compensated level measurement and medium temperature measurement from -50°C to 150°C
Supply voltage:	12VDC/24VDC (-25%/+50%)
Reverse connection protection:	Between supply voltage plus and minus
Measurable mediums:	Oil mediums with an ϵ_r 1,8 ... 6
Sensor outputs:	Voltage output All outputs are short circuit protected
Signal progress:	Range as per customer requirements Tank geometry Linear or range as per customer requirements
Level switch- or Temperature output requirement:	Switch point position as per customer (within the measure range) MIN or MAX function Hysteresis as per customer requirement Delay time as per customer requirement Minus switching to 500mA and short circuit proof Temperature output (analogue or switch output) -50°C bis 150°C
Measurement deviation:	+/- 3% referenced to the measurement range and value
Installation position:	Vertical without support +/- 5°
Pressure resistance:	5bar
Environmental protection of flange:	IP69k according to DIN 40050
Environmental protection of connector:	Depending on version, up to IP69k according to DIN 40050
Operating temperature:	-40°C to 125°C
Storage temperature:	-40°C to 125°C
EI. connection:	4 –wire cable; plug as per customer requirement (standard bayonet according to DIN 72585)
Mechanical connection:	5 – hole flange (standard) 6 – hole flange
Marking:	Laser inscription (manufacturer, manufacturer number, customer part number, serial number, date: week / year)
Sensor length:	As per customer requirements from 200mm to 1200mm (longer versions on request)
EMC*:	Conducted emissions test according to CISPR 25 Measurement of radiated field strength according to CISPR 25 ESD test according to EN 61000-4-2 and ISO TR 10605 Immunity test according to ISO 11 452 Immunity test according to ISO EN 61000-4-6 Immunity test according to ISO EN 61000-4-5 Transient immunity test with test pulse 5 (load dump) according to ISO 7637-2 Voltage variations according to IEC 60092-504 Voltage interruptions according to IEC 60092-504
Vibratory resistance*:	Sine – Vibration according to DIN IEC 68-2-6/ -27
Shock resistance*:	Shock test according to DIN IEC 68-2-6/ -27
Environmental test*:	Thermal shock test according to EN 60068-2 Temperature cycling examination according to EN 60068-2 Salting spray examination according to EN 60068-2 Type of protection examination IP67 and IP69K according DIN 40050 part 9
Flange material:	GD-AISI10Mg (Nr. 239) DIN 1725
Profile material:	AlMgSi0,5 F22 DIN 1725

*The above-named test are realized according to the standards of construction machinery and commercial vehicle industry

A complete test report we send you on request