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JUMO Process Control, Inc.
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Level and temperature probes for utility vehicles as well as construction and agricultural machinery

- Temperature range from -40 to +140 °C
- As level or combined level and temperature probes
- Connection line: cross-linked polyester
- Installation position: standing or suspended
- Measuring path of 50 mm or 62 mm

For optimum motor or gear operation, several parameters must be continuously monitored and corrected in the event of deviations.

The oil level and the oil temperature are two of these parameters.

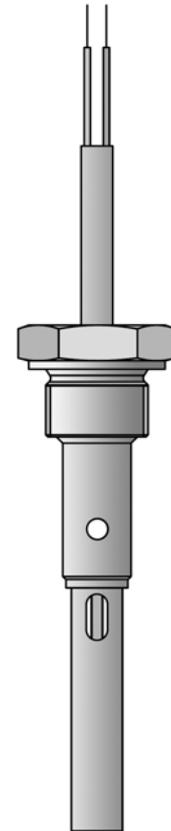
The combined level and temperature probe supports the vehicle diagnosis of modern utility vehicles, construction and agricultural machinery. This level probe operating according to the hot-wire principle allows to determine the filling level of gear or motor oil throughout a measuring path of up to 100 mm. Only the filling level monitoring will ensure that the motor does not operate with excessive or insufficient oil. This will prevent damage to the motor.

The level probe can also be provided with an additional temperature sensor. The level and temperature probe is equipped with a Pt1000 temperature sensor as per DIN EN 60751, cl. B in 2-wire circuit. The design with Pt100 or Pt500 temperature sensors as well as NTC and semi-conductors are also possible.

The voltage signal transmitted by the hot-wire and the resistance signal from the temperature sensor are separately transmitted to the vehicle electronics for evaluation.

Depending on the customer requirements, the housing can be made of stainless steel, steel or heavy-duty plastics.

The level and temperature probe is designed for a temperature range from -40 to +140 °C in permanent operation.



Technical Data

Connection	Cable ends stripped bare, with connector DIN 72585 (quarter-turn type connector) or as per customer requirements
Cable	Cross-linked polyester, ambient temperature -40 to +150 °C
Process connection	Screw connection M 24x1.5 or as desired by the customer
Thermowell	Stainless steel or galvanized steel (heavy-duty plastics on request)
Temperature probe	Pt1000 DIN EN 60751, cl. B, 2-wire-circuit
Level sensor	Hot-wire principle, ±3 mm tolerance
Measuring path	50 mm or 62 mm (different measuring paths on request)
Installation position	standing (process connection in the media) suspended (process connection not in the media)

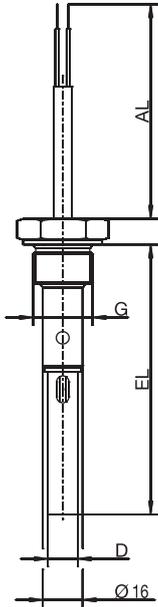
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Dimensions



Type 902880/10

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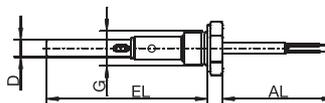
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Order details: Level and temperature probes for utility vehicles as well as construction and agricultural machinery

(1) Basic type

902880/10 Level and temperature probes
 for utility vehicles as well as construction and agricultural machinery



	(2) Operating temperature range in °C/cable type
x	481 -40 to +140 °C
	(3) Measuring path
x	50 50 mm
x	62 62 mm
	(4) Measuring insert
x	0000 without temperature probe
x	1003 1x Pt100 in 2-wire circuit
x	1004 1x Pt500 in 2-wire circuit
x	1005 1x Pt1000 in 2-wire circuit
x	9999 different sensors on request (please specify in plain text)
	(5) Thermowell diameter D in mm
x	12 Ø 12 mm
	(6) Fitting length EL in mm
x	110 110 mm
x	140 140 mm
x	170 170 mm
x	180 180 mm
x	200 200 mm
x	220 220 mm
	(7) Process connection
x	133 Screw connection M 24x1.5
x	999 Customer specification (please specify in plain text)
	(8) Cable termination
x	03 stripped wires
x	79 Connector DIN 72585 (quarter-turn type connector)
x	99 Customer specification (please specify in plain text)
	(9) Connection cable length AL in mm (110 ≤ AL ≤ 10000)
x	110 110 mm
x	400 400 mm
x	550 550 mm
x	1000 1000 mm
x	... Please specify in plain text (50 mm steps)
	(10) Installation position
x	1 standing (process connection in the media)
x	2 suspended (process connection not in the media)
	(11) Extra codes
x	000 None
x	852 PA6 corrugated hose around the connection line

Order code - - - - - - - - - /
 Order example 902880/10 - 481 - 50 - 1005 - 12 - 220 - 133 - 79 - 1000 - 1 / 000