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## JUMO VIBROtemp

# Screw-In RTD Temperature Probe with Plug Connector

- For temperatures from -50 to +270 °C (temporarily up to 300 °C)
- Vibration-resistant construction
- Application areas: commercial vehicles, construction and agricultural machinery, motors, compressors, and railway technology
- Various plug connectors; locked to ensure contact
- Protection type up to IP67/IP69 according to DIN EN 60529 (IP69K according to DIN 40050)

Even under pressure, screw-in RTD temperature probes in the VIBROtemp series enable reliable temperature measurements in commercial vehicles, construction machinery, agricultural machinery, motors, compressors, and in railway technology.

The vibration-resistant construction achieves excellent long-term stability even in tough operating conditions.

Different plug connections are available to suit the specific application area. When plugged in, protection type IP67/IP69 according to DIN EN 60529 or IP69K according to DIN 40050 is fulfilled.

The protection tube is reduced to 4 mm, which enables short response times.

The measuring insert is a Pt100 temperature sensor according to DIN EN 60751, class B in two-wire circuit as standard. Versions with Pt500 or Pt1000 as well as PTC or NTC temperature sensors are also possible.



## Approvals/approval marks (see "Technical data")



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## Technical data

Basic types	902040/10: AMP plug connector (Junior Power Timer), IP67 902040/12: machine connector M12 × 1, IP67 902040/15: bayonet connector according to DIN 72585, IP69/IP69K 902040/17: Bosch compact connector 1.1, IP69/IP69K
Process connection	Thread M14 × 1.5 (standard), more upon request
Protection tube	Stainless steel or brass
Measuring insert	Pt100, Pt500, or Pt1000 temperature sensors according to DIN EN 60751, class B in two-wire circuit, more upon request
Vibration stability (depending on version)	Frequencies from 10 to 3000 Hz Acceleration up to 30 g Shock up to 100 g/5 ms
Protection type (when plugged in)	IP67/IP69 according to DIN EN 60529 (IP69K according to DIN 40050), see technical data for "Basic Types"
Response times	In water with a flow velocity of 0.4 m/s Ø 4 mm: $t_{0.5} = 1.2 \text{ s}$ , $t_{0.9} = 6 \text{ s}$
Accessories	Coupling for each basic type (see data sheet 909760)
Variable features (special version)	Insertion length Protection tube diameter Wall thickness Process connection (thread type) Thread undercut (DIN 3852 standard, form A) Protection tube material Measuring insert Extension tube Connector

## Approvals/approval marks

Approval mark	Test facility	Certificate/certification number	Inspection basis	Valid for
SIL QUALIFIED PL QUALIFIED	-	-	-	Extra code 658 in conjunction with declaration of manufacturer