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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<br>902040/12: machine connector M12 × 1, IP67<br>902040/15: bayonet connector according to DIN 72585, IP69/IP69K<br>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<br>Acceleration up to 30 g<br>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<br>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<br>Protection tube diameter<br>Wall thickness<br>Process connection (thread type)<br>Thread undercut (DIN 3852 standard, form A)<br>Protection tube material<br>Measuring insert<br>Extension tube<br>Connector |

## Approvals/approval marks

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