

## Screw-In RTD Temperature Probes with Terminal Head Form B (902020)

- For temperatures from -50 to +600 °C
- Replaceable measuring insert
- Available as single and double RTD temperature probe
- Terminal head: form B, BUZ, BUZH, BBK, AB7, and KGI-1
- Available with transmitter



### Order details

|   |   |   |   | <b>(1) Basic type</b>                  |                                                                                  |  |
|---|---|---|---|----------------------------------------|----------------------------------------------------------------------------------|--|
|   |   |   |   | 902020/10                              | Screw-in resistance thermometer with support tube, continuous protection tube    |  |
|   |   |   |   | 902020/11                              | Screw-in resistance thermometer with support tube, stepped protection tube       |  |
|   |   |   |   | 902020/20                              | Screw-in resistance thermometer without support tube, continuous protection tube |  |
|   |   |   |   | 902020/21                              | Screw-in resistance thermometer without support tube, stepped protection tube    |  |
|   |   |   |   | <b>(2) Operating temperature in °C</b> |                                                                                  |  |
| X | X | X | X | 386                                    | -50..260 °C                                                                      |  |
| X | X | X | X | 402                                    | -50 to 400 °C                                                                    |  |
| X | X | X | X | 415                                    | -50..600 °C                                                                      |  |
|   |   |   |   | <b>(3) Measuring insert</b>            |                                                                                  |  |
| X | X | X | X | 1001                                   | 1x Pt100 in 3-wire circuit                                                       |  |
| X | X | X | X | 1003                                   | 1x Pt100 in 2-wire circuit                                                       |  |
| X | X | X | X | 1011                                   | 1x Pt100 in 4-wire circuit                                                       |  |
| X | X | X | X | 2001                                   | 2x Pt100 in 3-wire circuit                                                       |  |
| X | X | X | X | 2003                                   | 2x Pt100 in 2-wire circuit                                                       |  |
|   |   |   |   | <b>(4) Tolerance class</b>             |                                                                                  |  |
| X | X | X | X | 1                                      | Class B                                                                          |  |
| X | X | X | X | 2                                      | Class A                                                                          |  |
|   |   |   |   | <b>(5) Diameter prot. tube</b>         |                                                                                  |  |
| X | X | X | X | 9,00                                   | Ø 9 mm                                                                           |  |
| X | X | X |   | 11,00                                  | Ø 11 mm                                                                          |  |
|   | X | X | X | 12,00                                  | 12mm stepped down to 9mm (standard restrained)                                   |  |
|   |   |   |   | <b>(6) Fitting length in mm</b>        |                                                                                  |  |
| X | X | X | X | 100,00 - 1000,00                       | 100 - 1000 mm                                                                    |  |
|   |   |   |   | <b>(7) Process connection</b>          |                                                                                  |  |
| X | X | X | X | 104                                    | Screw connection G 1/2                                                           |  |
| X | X | X | X | 105                                    | Screw connection G 3/4                                                           |  |
| X | X | X | X | 106                                    | Screw connection G 1                                                             |  |
|   |   |   |   | <b>(8) Extra codes</b>                 |                                                                                  |  |
| X | X | X | X | 000                                    | Without extra code                                                               |  |
| X | X | X |   | 306                                    | Support tube 70 mm                                                               |  |
| X | X | X | X | 320                                    | Terminal head form BUZ                                                           |  |
| X | X | X | X | 321                                    | Terminal head form BUZH                                                          |  |
| X | X | X | X | 322                                    | Terminal head form BBK                                                           |  |
| X | X | X | X | 326                                    | Terminal head form stainless steel KGI-1                                         |  |
| X | X | X | X | 924                                    | Terminal head form AB7 with LC plug-in display                                   |  |
| X | X | X | X | 925                                    | Form BUZH mit LCD-Aufsteckdisplay                                                |  |
| X | X | X | X | 374                                    | Inspection certificate 3.1 DIN EN 10204 material                                 |  |

|   |   |   |   |      |                                                                                                                                      |
|---|---|---|---|------|--------------------------------------------------------------------------------------------------------------------------------------|
| X | X | X | X | 424  | Connector M12 x 1                                                                                                                    |
| X | X | X | X | 658  | SIL- and PL-suitable with STB 70115X                                                                                                 |
| X | X | X | X | 659  | SIL- and PL-suitable with Transm. T06                                                                                                |
|   |   | X | X | 1160 | H2 ready - mobile hydrogen applications                                                                                              |
| X | X | X | X | 330  | 1x analog transmitter, output 4..20mA                                                                                                |
| X | X | X | X | 331  | 1x program. transmitter 4..20mA                                                                                                      |
| X | X | X | X | 333  | 1x analog transmitter, output 0..10V                                                                                                 |
| X | X | X | X | 334  | 2x transmitter analog, output 4 to 20 mA, data sheet 707030 (only with terminal head Form BUZH)                                      |
| X | X | X | X | 335  | 2x transmitter programmable, output 4 to 20 mA / 20 to 4 mA, data sheet 707010 (only with terminal head Form BUZH)                   |
| X | X | X | X | 337  | 2x transmitter analog, output 0 to 10 V, data sheet 707030 (only with terminal head Form BUZH)                                       |
| X | X | X | X | 550  | 1x progr. transmitter 4..20mA USB 707050                                                                                             |
| X | X | X | X | 551  | 2x transmitter programmable, output 4 to 20 mA / 20 to 4 mA and USB-interface, data sheet 707050 (only with terminal head Form BUZH) |
| X | X | X | X | 859  | 1x transmitter progr. transmission                                                                                                   |
| X | X | X | X | 866  | 1x programmable dual-channel transmitter with HART (Type 707080 according to data sheet 707080), output 4 to 20 mA                   |
| X | X | X | X | 867  | 1x 2-K-MU progr. HART/SIL 4..20mA 707081                                                                                             |

**Order code**

(1) (2) (3) (4) (5) (6) (7) (8)

-  -  -  -  -  -  /

**Quantity discounts upon request**

<sup>1</sup> For extra code transmitter please specify measuring range and, if applicable, output signal in plain text.


**Stock versions**

| Order code                                    | Part no. |
|-----------------------------------------------|----------|
| 902020/10-402-1003-1-9-160-104/000            | 00055562 |
| 902020/10-402-1003-1-9-250-104/000            | 00055563 |
| 902020/10-402-1003-1-9-400-104/000            | 00055564 |
| 902020/10-402-2003-1-9-160-104/000            | 00055565 |
| 902020/10-402-2003-1-9-250-104/000            | 00055566 |
| 902020/10-402-2003-1-9-400-104/000            | 00055567 |
| 902020/10-402-1001-1-9-160-104/330 (0..100°C) | 00054616 |
| 902020/10-402-1001-1-9-160-104/330 (0..200°C) | 00087522 |
| 902020/10-402-1001-1-9-250-104/330 (0..200°C) | 00087527 |
| 902020/10-402-1001-1-9-400-104/331 (0..100°C) | 00335111 |

**Accessories**

| Description                                         | Part no. |
|-----------------------------------------------------|----------|
| PC interface with converter USB/TTL                 | 00456352 |
| Battery SL-760/S in foil bag 707060                 | 00547559 |
| Activation for OnlineChart                          | 00549188 |
| USB cable, A-connector to Mini-B connect length 3 m | 00506252 |
| PC interface (TTL/RS232) with adapter (s            | 00350260 |
| HART Communication Modem                            | 00443447 |
| DTM JUMO dTRANS T07 B 707080                        | 00687789 |

Accessories see price sheet:

- Screw-In Thermowells (909710)
- Welding Protective Sleeves (909710)

- Measuring Inserts for Screw-In RTD Temperature Probes with Form B Terminal Head (909740)

**Software**

| Description                            | Part no. |
|----------------------------------------|----------|
| Setup-Program Wtrans                   | 00488887 |
| Setup program Wtrans inkl OnlineChart  | 00549067 |
| Setup JUMO dTRANS T05 707050/51        | 00574959 |
| JUMO setup dTRANS T01J 315.01.xx/1.08J | 00605080 |