

## JUMO PROCESStemp RTD Temperature Probe for Process Technology with Ex Approval (902820)

- For temperatures from -200 to +600 °C
- With protection tubes made of stainless steel, titanium, tantalum, Inconel®, and HASTELLOY®
- Available with two-wire transmitter (4 to 20 mA/HART®) in Ex version
- II 1/2 G Ex ia IIC T6 ... T1 Ga/Gb<sup>1</sup>
- II 1/2 D Ex ia IIIC T80 ... T400 °C Da/Db<sup>1</sup>
- II 1/2 G Ex ia/d IIC T6 ... T1 Ga/Gb<sup>1</sup>
- II 1/2 D Ex ia/tb IIIC T80 ... T400 °C<sup>1</sup>
- With interchangeable measuring insert (not for Ex basic types)



<sup>1</sup> See description

### Order details

										<b>(1) Basic type</b>		
										902820/10	Screw-in RTD temperature probes with continuous protection tube	
										902820/11	Screw-in RTD temperature probes with stepped protection tube	
										902820/20	Push-in RTD temperature probes with continuous protection tube	
										902820/21	Push-in RTD temperature probes with stepped protection tube	
										902820/50	Screw-in RTD temperature probes with protection tube DIN 43 767 Form D1/D2	
										902820/51	Screw-in RTD temperature probes with protection tube DIN 43 767 Form D4/D5	
										902820/53	Screw-in RTD welding sleeve	
										902820/60	Screw-in RTD support tube metal elastic	
										902820/62	Screw- in RTD union nut metal elastic	
										902820/63	Screw-in RTD union nut metal firm	
										<b>(2) Operating temperature in °C</b>		
X	X	X	X	X	X	X	X	X	X	150	-200..+600°C (wire-wound temperature sensor)	
X	X	X	X	X	X	X	X	X	X	386	-50..260°C	
X	X	X	X	X	X	X	X	X	X	402	-50 ..+400°C (thin-film temperature sensor) (not in connection with extra code 362)	
X	X	X	X	X	X	X	X	X	X	415	-50 ..+600°C (thin-film temperature sensor)	
										<b>(3) Measuring insert</b>		
X	X	X	X	X	X	X	X	X	X	1001	1x Pt100 in 3-wire circuit	
X	X	X	X	X	X	X	X	X	X	1003	1x Pt100 in 2-wire circuit **	
X	X	X	X	X	X	X	X	X	X	1011	1x Pt100 in 4-wire circuit	
X	X	X	X	X	X	X	X	X	X	2001	2x Pt100 in 3-wire circuit	
X	X	X	X	X	X	X	X	X	X	2003	2x Pt100 in 2-wire circuit **	
X	X	X	X	X	X	X	X	X	X	2011	2x Pt100 in 4-wire circuit (only with terminal head Form BUZH) (not in connection with extra code 362)	



X	X	X	X	X	X	X	X	X	X	551	2x transmitter programmable, 4 to 20 mA/20 to 4 mA output (USB), data sheet 707050
X	X	X	X	X	X	X	X	X	X	859	1x Wtrans B programmable transmitter with transmission, data sheet 707060
X	X	X	X	X	X	X	X	X	X	866	1x 2-K-MU progr. HART, 4..20mA 707080
X	X	X	X	X	X	X	X	X	X	867	1x 2-K-MU progr. HART/SIL 4..20mA 707081
X	X	X	X	X	X	X	X	X	X	868	1x 2-K-MU progr. HART/Ex 4..20mA 707085
X	X	X	X	X	X	X	X	X	X	869	1x 2-K-MU progr. HART/Ex/SIL 4..20mA 707086
X	X	X	X	X	X	X	X	X	X	365	Inspection certificate 3.1 DIN EN 10204 insulation resistance
X	X	X	X	X	X	X	X	X	X	367	Inspection certificate 3.1 DIN EN 10204 pressure test
X	X	X	X	X	X	X	X	X	X	368	Inspection certificate 3.1 DIN EN 10204 leakage test
X	X	X	X	X	X	X	X	X	X	374	Inspection certificate 3.1 DIN EN 10204 material
X	X	X	X	X	X	X	X	X	X	424	Connector M12 x 1
X	X	X	X	X	X	X	X	X	X	658	SIL- and PL-suitable with safety temperature limiter and safety temperature monitor 70115X
X	X	X	X	X	X	X	X	X	X	659	SIL- and PL-suitable with Transm. T06
X	X	X	X	X	X	X	X	X	X	661	Digital indicator integrated Ex-ia
X	X	X	X	X	X	X	X	X	X	789	With integrated display / panel
X	X	X	X	X	X	X	X	X	X	562	wetted parts with PTFE-coating, on request
X	X	X	X	X	X	X	X	X	X	563	wetted parts with ECTFE (HALAR)-coating, on request
X	X	X	X	X	X	X	X	X	X		
X	X	X	X	X	X	X	X	X	X	362	Ex protection i according to EC directive 94/9/EC (ATEX)
X	X	X	X	X	X	X	X	X	X	292	Dividing element as per IEC 60079

**Order code**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)

**Quantity discount:**

As of 5 pieces: 5 %

As of 10 pieces: 10 %

As of 25 pieces: please inquire

**Note:**

For extra code transmitter please specify measuring range and, if applicable, output signal in plain text.

**RTD temperature probe with EX approval:**
<sup>1</sup> The precise Ex identification marking occurs upon delivery on the nameplate and in the operating manual.

\* Marked protection tube diameters for use in zone 0 or 20 upon request.

\*\* For RTD temperature probes with Ex approval combination measuring inserts 1001, 1003, and 2003 are not available in connection with transmitters 331 or 336.

**Caution:** for application in zones 20, 21, and 22, only a terminal head with a min. protection rating of IP65 is possible.

**Additional information:** in which zone is the RTD temperature probe used?

**Note:** the specified operating temperatures are maximum values based on the applied sensing element. Operating temperatures in Ex areas are severely restricted. When determining the respective maximum operating temperature please consult the operating manual (chapter 5).

Due to the complexity of the possible versions, not all variations can be illustrated.

Please note that certain combinations cannot be supplied for all categories according to Ex.



**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

**Software**

Description	Part no.
Setup program dTRANS T01 CD-ROM 709709 955010	00378733
Setup-Program Wtrans	00488887
Setup program Wtrans inkl OnlineChart	00549067
Setup JUMO dTRANS T05 707050/51	00574959