



RTD Temperature sensor with IO-Link interface

- Single RTD temperature probe, type Pt1000
- Process connections: G ½", clamp DN 10/20 according to DIN 32676
- Temperature measurement range: -50...+150 °C
- Switching functions available : PNP or NPN
- Access to measurement value, device status and settings via IO-Link interface, very easy sensor replacement



Product variants described in the data sheet may differ from the product presentation and description.

Type description

The temperature sensor is used for temperature measurement and monitoring. The effect of the temperature on a resistance RTD temperature probe generates a signal, which is amplified, digitalized and processed.

Instead of an analogue output this device offers a digital interface IO-Link. This allows bidirectional data transfer with any IO-Link Master. Data access is done by using the available standardized IODD.

The IO-Link is in accordance to the specification version 1.1. IO-Link. The bidirectional communication is used to read process data, diagnostic information, status messages and to set parameters. The two green LEDs are permanently lit as soon as power is supplied to the device. Once an IO-Link connection is established, the LEDs flash.

The switching behaviour and the switching thresholds of the digital outputs (max. 2 pieces; "PNP" or "NPN") can be individually configured – as well as many other parameters.



Fluid Control Special





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1. General Technical Data

Product properties				
Material				
Non wetted parts				
Housing	Stainless steel 1.4571 (316Ti)			
•				
Wetted parts				
Process connection	Stainless steel 1.4404 (316L) for thread connection version			
	Stainless steel 1.4435 (316L) for clamp connection version (with low delta ferrite			
	content)			
Protection tube	 Stainless steel 1.4404 (316L) for thread connection version 			
	 Stainless steel 1.4435 (316L) for clamp connection version 			
Dimensions	Detailed information can be found in chapter "3. Dimensions" on page 6.			
Measurement element	RTD temperature probe Pt1000, four-wire circuit			
Probe length	50 or 100 mm			
Measuring range	-50+150 °C (-58+302 °F)			
Monitoring	Measuring circuit: IO-Link event configurable and is available as device status			
	Process data invalid			
	Measuring range overflow			
	Measuring range underflow			
	Device hardware fault			
Additional functions	Fine adjustment			
Additional functions				
	Change between °C/°F			
	 Data format switchover (integer/floating point) 			
	Switching outputs in SIO mode			
Weight	Approx. 80 g for the version with thread connection and 100 mm probe length.			
1	The weight of the temperature sensor depends on the process connection and the inser-			
	tion length.			
Performance data				
Sampling rate	1 <mark>6</mark> 0 ms			
Sampling rate	160 ms Temperature linear			
Sampling rate	160 ms Temperature linear Protection tube Ø6 mm (standard):			
Sampling rate	160 ms Temperature linear Protection tube Ø 6 mm (standard): • $t_{0.5}=5$ s; $t_{0.9}=12$ s, in water with a flow velocity of 0.4 m/s			
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Sampling rate Transmission behaviour Response time Measuring resolution Measurement deviation Electrical data Operating voltage Power source (not supplied) Current consumption DC reverse polarity protection Short circuit protection	160 msTemperature linearProtection tube Ø6 mm (standard): $t_{0.5} = 5$ s; $t_{0.9} = 12$ s, in water with a flow velocity of 0.4 m/s $t_{0.5} = 40$ s; $t_{0.9} = 110$ s, in air with a flow velocity of 3.0 m/s14 bit• Tolerance class A, $\pm (0.15 + 0.002 \times t ^{1.3})$ °C according to EN 60751:2009/ IEC 60751:2008• $\leq \pm (0.08 \%)^{2.3}$ (calibration of the electronic components)• In IO-Link operation: 1832 V DC, filtered and regulated• In switch operation: 9.632 V DC, filtered and regulated• Nominal voltage: 24 V DCThe auxiliary energy of the pressure sensor must meet SELV requirements; optionally, an energy-limited current circuit according to section 9.3 of DIN EN 61010-1 and UL 61010-1 can be used• In IO-Link operation: ≤ 12 mA (at nominal voltage)• In IO-Link operation: ≤ 20 mA (at nominal voltage)• In switch operation: ≤ 200 mA (at nominal voltage and with 2 digital outputs)YesYes (clocked)			
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Sampling rate Transmission behaviour Response time Measuring resolution Measurement deviation Electrical data Operating voltage Power source (not supplied) Current consumption DC reverse polarity protection Short circuit protection Current limiting Switching current Measuring current	160 ms Temperature linear Protection tube Ø 6 mm (standard): $t_{0.5} = 5$ s; $t_{0.9} = 12$ s, in water with a flow velocity of 0.4 m/s $t_{0.5} = 40$ s; $t_{0.9} = 110$ s, in air with a flow velocity of 3.0 m/s 14 bit • Tolerance class A, $\pm (0.15 \pm 0.002 \times t ^{1.0})$ °C according to EN 60751:2009/ IEC 60751:2008 • $\leq \pm (0.08 \%)^{2.0}$ (calibration of the electronic components) • In IO-Link operation: 1832 V DC, filtered and regulated • In switch operation: 9.632 V DC, filtered and regulated • Nominal voltage: 24 V DC The auxiliary energy of the pressure sensor must meet SELV requirements; optionally, an energy-limited current circuit according to section 9.3 of DIN EN 61010-1 and UL 61010-1 can be used • In idle operation: ≤ 12 mA (at nominal voltage) • In IO-Link operation: ≤ 20 mA (at nominal voltage) • In NO-Link operation: ≤ 20 mA (at nominal voltage) • In idle operation: ≤ 200 mA (at nominal voltage) • In NO-Link operation: ≤ 200 mA (at nominal voltage) • In Switch operation: ≤ 200 mA (at nominal voltage and with 2 digital outputs) Yes Yes Yes Yes Yes Yes Yes Yes Yes			
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Signal processing	Input filter:
	digital filter, second order
	filter time constant can be set
Output signal	
Quantity	 1 digital output in IO-Link operation
Switching functions configurable	 2 digital outputs for switch operation (SIO mode; SIO = standard IO) Hysteresis function (Hysteresis configurable) or window function (hysteresis fixed setting, symetrical, ±0.25% of the measuring range)
	NC or NO contact
	Digital output PNP or NPN
	 Switch-on/switch-off delay (0100 s)
Cable	4-wire unshielded cable, max. 20 m
Medium data	
Fluid	Liquid and gaseous medium
Fluid pressure	G 1/2" process connection: Max. 40 bar
	 Clamp DN 10/20, according to DIN 3676. The permissible pressures are designed for an operating temperature range of -10 to +140 °C given use of suitable clamps and sealing materials.
Process/Port connection & communi-	
Process connection	G 1/2" according to EN 837
	Clamp DN 10/20 according to DIN 32676 Detailed information on the process connection can be found in chapter "4.3. Ordering
	chart" on page 7.
Electrical connection	M12×1 male connector, 4 pin (A-coded, non rotating)
Digital communication: IO-Link	
Communication interface	IO-Link device V1.1, downward compatible to V1.0
Baud rate (data transfer rate)	COM 3 (230.4 kBaud)
Cycle time	Min. 2 ms
IO device description (IODD)	Depending on the ordered input range See "Device Description Files" on the website in the Software chapter Type 8418 available or at https://ioddfinder.io-link.com
Approvals and certificates	
Standards	
Degree of protection	IP66/IP67/IP69 according to IEC/EN 60529, with connector screwed on
Protection class	Class III according to EN 61140
Directives	
Directives CE directives	The applied standards, which verify conformity with the EU Directives, can be found on the EU Type Examination Certificate and/or the EU Declaration of conformity (if applica-
	ble).
Electromagnetic compatibility (EMC)	CE conformity according to EN 61326-2-3 Interference emission: class B
	 Immunity to interference: to industrial requirements
Pressure equipment directives	 The device does not meet the requirements for "safety accessories" within the mean ing of the Pressure Equipment Directive 2014/68/EU.
	 Complying with Article 4, Paragraph 1 of 2014/68/EU directive Detailed information on the pressure equipment directive can be found in chapter "2.1. Pressure Equipment Directive" on page 5.
Environment and installation	
Ambient temperature	-40+85 °C (-40+185 °F) (operation ^{4.)} and storage)
Temperature influence	≤±0.0025 % per K ^{2.j3.j}
Relative air humidity	 During operation: ≤100 %, without condensation on the outer housing surface of the device
	 During storage: ≤90 %, without condensation
Climate class	3K7 according to EN 60721-3-3
Area of use	Indoors and outdoors (protect this device against electromagnetic interference, ultravio- let rays and the effects of climatic conditions)
Vibration resistance	According to EN 60068-2-6: 10 g with 10500 Hz

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Shock resistance	According to EN 60068-2-27:	
	• 20 g, 11 ms	
	• 50 g, 1 ms	
Mounting position	Unrestricted	

1.) |t| = temperature value in °C regardless of the prefix sign.

2.) All accuracy specifications in % relative to the respective measuring range

3.) Relative to the temperature deviation at the calibration point (25 $^\circ\text{C}$ ±5 K)

4.) At process temperatures above 120 °C, the maximum admissible ambient temperature is 60 °C (stated at nominal voltage 24 V DC)

2. Approvals

2.1. Pressure Equipment Directive

The device conforms to Article 4, Paragraph 1 of the Pressure Equipment Directive 2014/68/EU under the following conditions:

Device used on a pipe

Note:

- The data in the table is independent of the chemical compatibility of the material and the fluid.
- PS = maximum admissible pressure, DN = nominal diameter of the pipe

Type of fluid	Conditions
Fluid group 1, Article 4, Paragraph 1.c.i	DN ≤25
Fluid group 2, Article 4, Paragraph 1.c.i	DN ≤32 or PS*DN ≤1000
Fluid group 1, Article 4, Paragraph 1.c.ii	DN ≤25 or PS*DN ≤2000
Fluid group 2, Article 4, Paragraph 1.c.ii	DN ≤200 or PS ≤10 or PS*DN ≤5000

Device used on a vessel

Note:

- The data in the table is independent of the chemical compatibility of the material and the fluid.
- PS = maximum admissible pressure, V = vessel volume

Type of fluid	Conditions
Fluid group 1, Article 4, Paragraph 1.a.i	V>1 L and PS*V \leq 25 bar.L or PS \leq 200 bar
Fluid group 2, Article 4, Paragraph 1.a.i	V>1 L and PS*V \leq 50 bar.L or PS \leq 1000 bar
Fluid group 1, Article 4, Paragraph 1.a.ii	V>1 L and PS*V \leq 200 bar.L or PS \leq 500 bar
Fluid group 2, Article 4, Paragraph 1.a.ii	$PS > 10$ bar and $PS^*V \le 10000$ bar.L or $PS \le 1000$ bar

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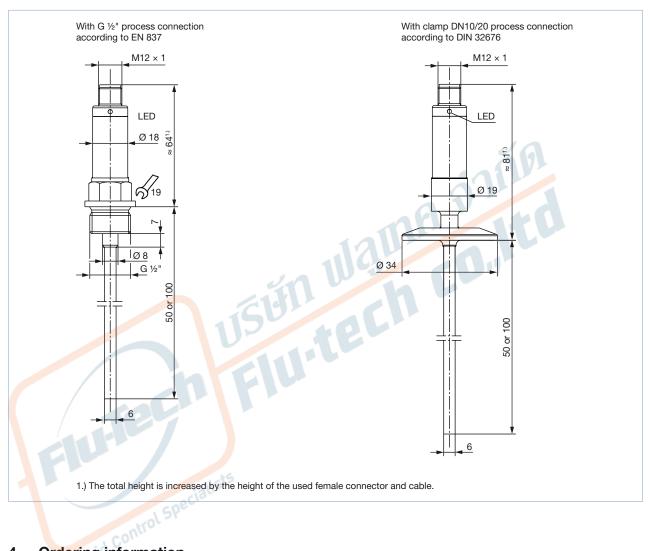
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3. Dimensions

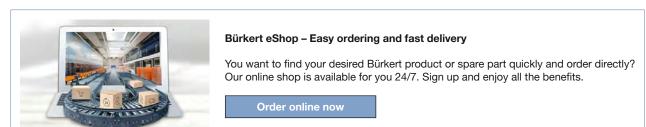
Note:

Dimensions in mm



4. Ordering information

4.1. Bürkert eShop - Easy ordering and quick delivery



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บริษัท ฟลูเทค จำกัด FluTech FLU-TECH CO.,LTD

บริษัท ฟลูเทค จำกัด 845/3-4 หมู่ 3 ถ.เทพารักษ์ ต.เทพารักษ์ อ.เมือง จ.สมุทรปราการ 10270

845/3-4 Thepharak RD., T.Thepharak, A.Muang, Samutprakarn 10270 THAILAND Tel. 0 2384 6060, Fax 0 2384 5701, Email : sales@flutech.co.th, www.flutech.co.th



4.2. Bürkert product filter

8	Traces C	annection /Size	7 Votinge / Frequency	Process	Pressure / Sealin
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ites	ui pretozo e		Nominal prossure ma	к.	Nominal pressure m
-	ul pretouro m	n . Dar	Nominal prossure ma	tt •	Nominal pressure m (gas)
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Bürkert product filter – Get quickly to the right product

You want to select products comfortably based on your technical requirements? Use the Bürkert product filter and find suitable articles for your application quickly and easily.

Try out our product filter

4.3. Ordering chart

Note:

All following versions have

- an operating voltage depending on operation mode (IO-Link: 18...32 V DC, Switch: 9.6...32 V DC or Nominal: 24 V DC)
- an IO-Link digital interface (according to specification version 1.1) or digital outputs (SIO mode; SIO = standard IO)

Process connection	Temperature range	Probe length	Article no.
	[°C]	[mm]	
G 1/2" according to EN 837	-50+150	50	574634 ቛ
		100	574635 🖼
Clamp DN 10/20 according to DIN 32676		50	574636 🛒
	17	100	574637 🛒

	Further versions on request					
.	Process connection Screw-in thread G %"	J °	Temperature -50+260 °C (-58+500 °F)			
	Screw-in thread M12x1.5 and G ¹ / ₂ " with CIP-compli- ant conical seal		Electrical connection IO-Link, M12x1 connector, high-temperature			
	 Aseptic screw-in thread DN 20, DN 25, DN 32, DN 40, DN 50 according to DIN 11864-1 form A 	>	Additional Pt1000 temperature sensor, four-wire circuit 			
	 Taper socket with union nut DN 10, DN 25, DN 32 according to DIN 11851 (dairy pipe fitting) 		 Class AA according to EN 60751:2009 / IEC 60751:2008 			
	 Clamping socket (clamp) DN 10/20, DN 25/40 according to DIN 32676 		• With protection tube diameter 3 mm only with screw- in thread M12 x 1.5 with CIP-compliant conical seal			
	 Clamping socket (clamp) DN 50 according to DIN 32676 (2" ISO 2852) 		 Insertion length: 15, 20, 25 only with screw-in thread M12 x 1.5 with CIP-compliant conical seal or 150 mm 			
	 Clamping socket (clamp) 2 ½" similar to DIN 32676 	IIII }	Certification			
	Ball welding socket with threaded compression fitting	•••	Inspection certificate 3.1 DIN EN 10204 (material)			
	Welding socket with CIP-compliant conical seal		Special calibration			
	 VARIVENT[®] connection DN 15/10, DN 32/25 or DN 50/40 					

Visit product website

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BioControl® D25, D50, D65 or D80

FLU-TECH CO.,LTD



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