DiTemp® // DT3 series

-40...300 °C



DT3-01

BEST SELLER



DT3-10

Highlights

- Intuitive recognition of process parameters and trends → Dual display unit
- Robust mechanical construction → Reliable and long-lasting operation
- Optional integrable transmitters → Simple integration into process control system
- Simple signalling of critical operating states → Freely programmable switching contacts
- Up to 10 years of energy self-sufficient operation → Durable lithium battery

Technical data	
Version	Straight
Dimensions	80 mm x 45 mm (D x D)
Measuring range	-40...300 °C
Medium / Application	Liquid and gaseous media
Immersion tube length	100...400 mm
Immersion tube diameter	6 or 8 mm
Process connection	Without, G¼, G½, G¾, M20 x 1.5, M27 x 2
Pressure rating	PN 25
Display	Bar graph 17 divisions 3 ½ digit, 7 segment LCD, 14 mm high
Resolution	0.1 K in the range <200 °C 1 K in the range >200 °C
Measuring rate	3 s
Ambient temperature	5...60 °C
Storage temperature	5...60 °C
Degree of protection EN 60529	IP65

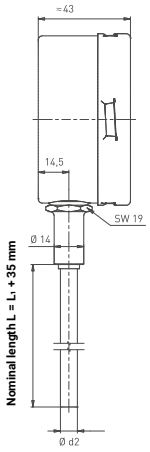
Electrical data	
Measuring element	Pt1000 / 2-wire / Class B
Accuracy	±1 % of range ±1 digit
Electrical connection	5-pin plug connector M12 x 1
Supply voltage	Lithium battery, 10 years service life (display unit)
Analogue output	
Current signal	4...20 mA / 2-wire (loop supply 15...26 VDC)
Scaling	Measuring range
Signal error	Error signal according to NAMUR NE43
Burden	Max. 500 Ω
Alarm output	
Quantity	2 x normally open contact
Version	Solid-state relay
Voltage	24 VAC/DC
Output current / switching current	Max. 100 mA
Switching point	Programmable
Hysteresis	Programmable
Alarm delay	0...999.9 s programmable

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Technical drawings

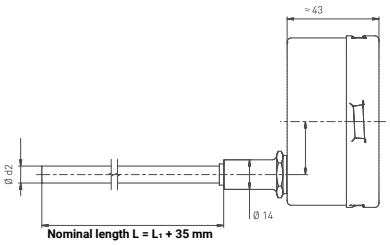
DT3-01

Immersion tube routed downwards (vertical)



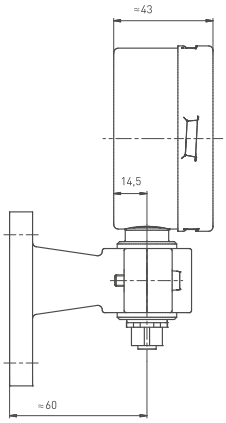
DT3-02

Immersion tube routed to the rear (axial)



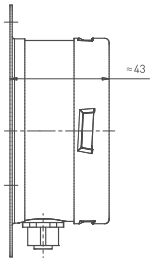
DT3-10

M12 socket at bottom
with wall holder



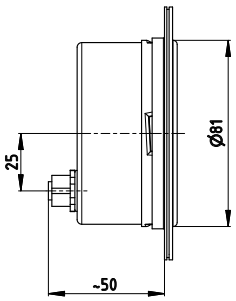
DT3-20

M12 socket at bottom
mounting flange at rear



DT3-30

M12 socket at rear
mounting flange at front



Materials

Materials	
Not in contact with medium	
Housing	Stainless steel 1.4301 with polished front frame, glas or plastic front screen
In contact with medium	
Process connection	Stainless steel 1.4571
Immersion tube	Stainless steel 1.4571

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Article numbers

Order code											
Type											
Immersion tube routed downwards (vertical)	DT3-01	961									
Immersion tube routed to the rear (axial)	DT3-02	962									
M12 socket at bottom with wall holder	DT3-10	970									
M12 socket at bottom mounting flange at rear	DT3-20	980									
M12 socket at rear mounting flange at front	DT3-30	990									
Display range											
-40...80 °C			48								
0...120 °C			12								
0...160 °C			16								
0...200 °C			20								
0...300 °C			30								
Immersion tube length l_1	**Nominal length L = l_1 + 35 mm**										
100 mm	135 mm			100							
160 mm	195 mm			160							
250 mm	285 mm			250							
400 mm	435 mm			400							
Connection type											
Connection type A, plain immersion tube					1						
Connection type AK, adjustable compression fitting					9						
Thread type											
None						0					
Connection type AKa, adjustable compression fitting (male thread)						2					
Connection type AKi, adjustable compression fitting (female thread)						3					
Connection thread											
Without - plain immersion tube							0				
G¼							L				
G½							2				
G¾							3				
M20 x 1.5							7				
M27 x 2							9				
Immersion tube material	**Connection thread material**										
Stainless steel 1.4571	None							1			
Stainless steel 1.4571	Stainless steel 1.4571							3			
Immersion tube diameter											
8 mm									0		
6 mm									1		
Connecting cable											
None										0	
Cable length 1 m*										1	
Cable length 3 m*										3	
Cable length 5 m*										5	
Cable length 10 m*										A	
Special features											
None											0
4...20 mA analog output (pre-programmed to display range)**											3
Alarm output (freely programmable in display range)**											5
Shatter-proof plastic front screen (FDA version)											2
Example order number		**961**	**48**	**100**	**1**	**0**	**0**	**1**	**0**	**0**	**0**

* DT3-10, DT3-20, DT3-30
** Not available for DT3-20

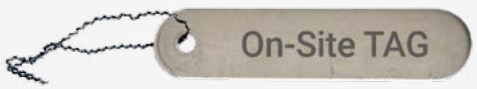
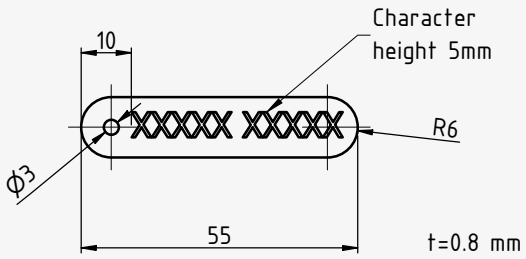
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SIKA

Article numbers

BEST SELLER

Type		Order number									
DT3	DiTemp DT3-30 type 990, M12 socket at rear mounting flange at front, display range -40...80 °C, l_1= 100 mm, G½, stainless steel 1.4571, immersion tube diameter 8 mm, connecting cable: 3 m, alarm output (freely programmable in display range)	**990**	**48**	**100**	**9**	**2**	**2**	**3**	**0**	**3**	**5**

Accessories

Accessories	Article number
Measuring point designation Laser-inscribed stainless steel plate with fixing wire for easy attachment to measuring points → **Scope of delivery:** Designation plate inscribed according to specification and enclosed fixing wire (sealing wire) → **Fastening:** Wire (included in delivery), alternatively sealing, cable ties or similar (not included in delivery) → **Materials:** Plate stainless steel 1.4571, wire stainless steel → **Dimensions:** Plate 55 x 10 x 0.8 mm, wire length 180 mm → **Inscription:** one-sided, single-line, max. 11 characters, character height 5 mm, designation width max. 40 mm, letters, numbers, symbols, barcodes, QR codes → **Transmission of designations:** digital list, file formats Excel, Word or CSV  	**ONSITETAG**

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