NENUTEC®

INNOVATIVE MEMBER OF SWISTEC

TT – industrial temperature transducers



TTE



TTI



TTC

The appearance of the product may differ from the illustration. Technical specifications are subject to change.

TT SERIES

APPLICATION AND USE

Designed for industrial applications with air duct mounting or wall mounting.

KEY FEATURES

Temperature measuring and transmission of voltage and current signals:

- 0...10 V_{DC}, 3 wires,
- 4...20 mA, 2 wires.

TECHNICAL SPECIFICATION

TYPE	MEASURING RANGE [°C]	OUTPUT (TEMPERATURE)	ACCURACY (TEMPERATURE) [°C]	PROTECTION DEGREE	APPLICATION	FIG. WITH DIAGRAM
TTC011	0...+50	0-10 V_{DC}	± 1	IP65	air duct	2
TTC012	-30...+50	0-10 V_{DC}	± 1.5	IP65	air duct	2
TTC013	0...+100	0-10 V_{DC}	± 2	IP65	air duct	2
TTC021	0...+50	4-20 mA	± 1	IP65	air duct	1
TTC022	-30...+50	4-20 mA	± 1.5	IP65	air duct	1
TTC023	0...+100	4-20 mA	± 2	IP65	air duct	1
TTE011	0...+50	0-10 V_{DC}	± 1	IP65	room/outdoor	2
TTE012	-30...+50	0-10 V_{DC}	± 1.5	IP65	room/outdoor	2
TTE013	0...+100	0-10 V_{DC}	± 2	IP65	room/outdoor	2
TTE021	0...+50	4-20 mA	± 1	IP65	room/outdoor	1
TTE022	-30...+50	4-20 mA	± 1.5	IP65	room/outdoor	1
TTE023	0...+100	4-20 mA	± 2	IP65	room/outdoor	1
TTI011	0...+50	0-10 V_{DC}	± 1	IP65	immersion	2
TTI012	-30...+50	0-10 V_{DC}	± 1.5	IP65	immersion	2
TTI013	0...+100	0-10 V_{DC}	± 2	IP65	immersion	2
TTI021	0...+50	4-20 mA	± 1	IP65	immersion	1
TTI022	-30...+50	4-20 mA	± 1.5	IP65	immersion	1
TTI023	0...+100	4-20 mA	± 2	IP65	immersion	1

Power supply:	see electrical wiring
Outputs:	see table
Power consumption:	< 1 W
Electric connection:	screw terminals max. 0.75 mm_2
Measuring range:	see table
Working temperature range (sensor):	0...+50°C (TTE) -20...+100°C (TTI) -20...+80°C (TTC)
Ambient temperature:	0...50°C
Working conditions:	10...95 % rH
Storage:	-20...+70°C
Accuracy:	max. error 1°C (range 0...50°C) max. error 1.5°C (range -30...50°C) max. error 2°C (range 0...100 °C)
Housing:	cover: blue transparent polycarbonate Base: blue polycarbonate
Dimensions:	75 x 75 x 36 mm
Protection:	IP65, class III (sensor excluded)
Weight:	180...300 g

TEMPERATURE DEPENDANCE OF ELECTRONICS:

output 4...20 mA (temperature): 0.015°C/°C

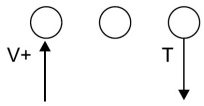
Load limits:	
output 4...20 mA	
- Supply 11...17 V_{DC}	R_L<50 Ohm
- Supply 21…30 V_{DC}	R_L<500 Ohm
output 0...10 V_{DC}	R_L>1000 Ohm

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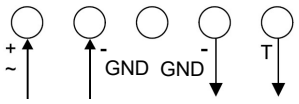
ELECTRICAL WIRING



11...30 V_{DC} 4...20 mA

Fig. 1

[V ± (0.02 x R_{in})] >= 11 V



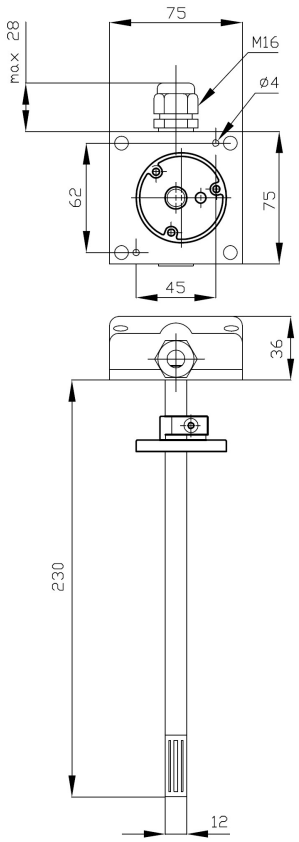
16...40 V_{DC}
15...24 V_{AC}
0...10 V_{DC}

Fig. 2

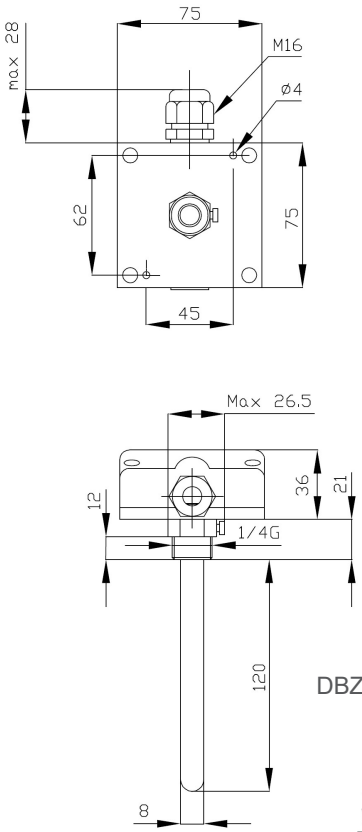
Wiring diagrams referred to the different models from the table.

DIMENSIONS [mm]

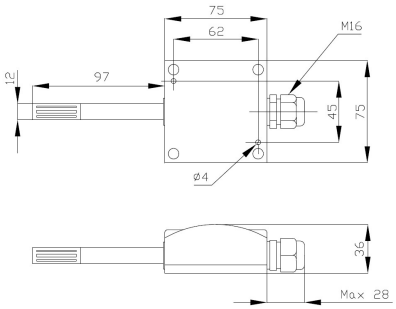
TTC



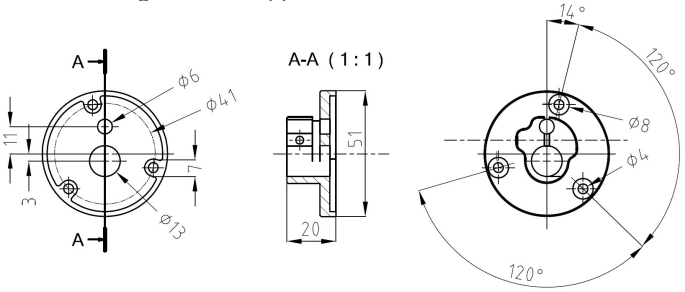
TTI



TTE



DBZ-22 mounting bracket supplied with TTC transmitter



Due to continuous product improvement, specifications are subject to change without notice.

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