TU – duct humidity transmitters

For industrial applications



TUE



TUC

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

TU SERIES

APPLICATION

Humidity measuring and transmission of voltage and current signals:

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

APPLICATIONS

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

Type	Range [r.H.]	Output (humidity)	Accuracy (humidity) % r.H.	Protection class	Application	Diagram fig.
TUC1	0...100	0...10 V_{DC}	± 3	IP65	air duct	2
TUC2	0...100	4...20 mA	± 3	IP65	air duct	1
TUE1	0...100	0...10 V_{DC}	± 3	IP65	room/outdoor	2
TUE2	0...100	4...20 mA	± 3	IP65	room/outdoor	1

Operating temperature for all humidity transmitters: -5...+50°C

Technical specifications

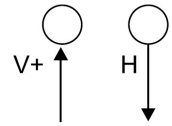
Power supply:	see electrical wiring
Humidity sensor:	capacitive
Output:	see table
Power consumption:	< 1 W
Electric connection:	screw terminals max. 0.75 mm_2
Measuring range:	see table
Working temperature range:	-5...+50□
Working conditions:	10...95 % rH
Storage:	-20...+70°C
Accuracy:	±3 % rH. at 20°C
Housing:	cover: blue transparent polycarbonate Base: blue polycarbonate
Protection:	IP65, class III (sensor excluded)
Dimensions:	75 x 75 x 36 mm
Weight:	180...300 g

Temperature dependence of electronics:

output 4...20 mA (humidity): 0.015 %r.h./°C

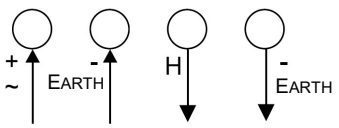
Load limits:	
output 4...20 mA	
- Supply 11…17 V_{DC}	R_L<50 Ohm
- Supply 21…30 V_{DC}	R_L<500 Ohm
output 0...10 V_{DC}	R_L>1000 Ohm

ELECTRICAL WIRING



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

Figure n° 1



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

0...10 V_{DC}

Fig. 2

[V ± (0.02 x R_{in})] >= 11 V

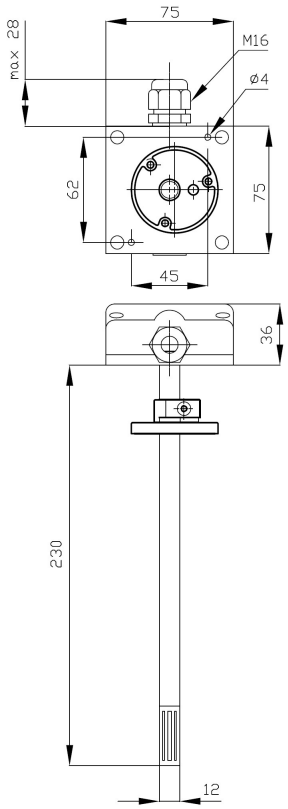
Wiring diagrams referred to the different models from the table.

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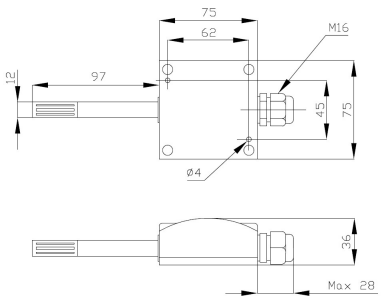
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DIMENSIONS [mm]

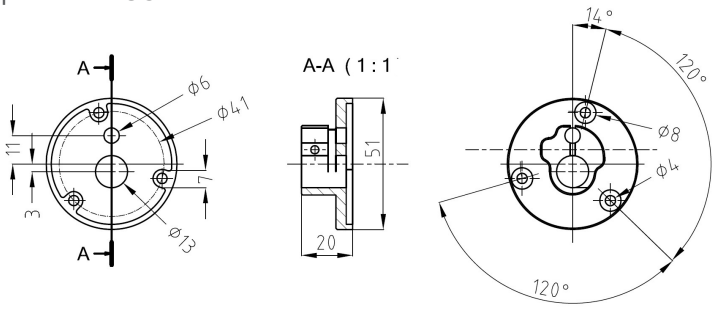
TUC



TUE



DBZ-22 mounting bracket supplied with TUC transmitter



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

Nenutec Polska

00-236 Warszawa
ul. Świętojerska 5/7
tel.: +48-(0)-504-050225
nenutec@nenutec.pl