

TECHNICAL DATA

HUMITTER® 50U HUMITTER® 50Y/YX

RELATIVE HUMIDITY

Measuring range (for which accuracy is specified)	10...90 %RH
Operating range	0...100 %RH
Accuracy	see Figure 1
Temperature dependence	see Figure 2
Sensor	INTERCAP® humidity sensor, part no. 15778

TEMPERATURE

Y-model - active output

Measuring range	-10...+60 °C
Accuracy	see Figure 3
Sensor	Pt 1000 IEC 751 Class B

YX-model - passive output

2-wire connection wire resistance	2 x 0.08 ohm
Sensor	Pt 1000 IEC 751 Class B

GENERAL

Output signal	0...1 V, $R_L > 100$ kohm (equals 0...100 %RH and -40...+60 °C, i.e. 10 mV equals 1 %RH or 1°C), other voltage outputs and 4...20 mA output available with external electronics
Power supply	7...28 VDC
Current consumption	2 mA typical
Operating temperature range	-10...+60 °C
Storage temperature range	-40...+60 °C
Operating humidity range	0...100 %RH
Sensor protection	membrane filter part no 17039 plastic grid part no 17038
option	
Housing material	ABS plastic
Housing classification	IP 65

Dimensions in mm

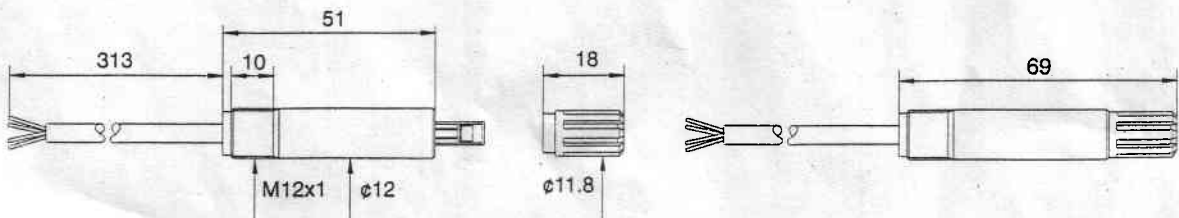


Fig. 1 Accuracy of humidity measurement

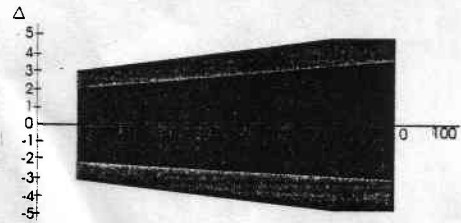


Fig. 2 Temperature dependence (-10...+60 °C)

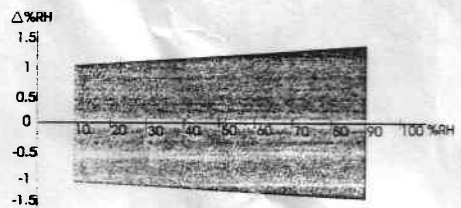
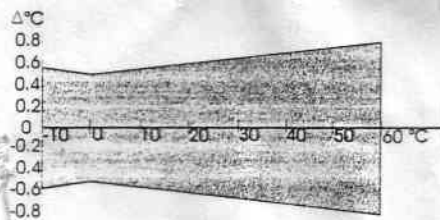


Fig. 3 Accuracy of temperature measurement



Cable connections

YEL	Vs 7-28 VDC
BRN	RH out 0-1V 0-100%RH
VIO	T out 0-1V -40 - +60 °C
GRN	GND (ground)
WHT	NC (no connection)
SHIELD	

In HUMITTER 50YX resistive temperature output via the violet and white wires.

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