

Temperature and humidity measuring transducer TF/FF/FTF

Room and duct version

FTF-R



Technical data	Room ...	Duct ...	Application
Operating voltage for 0...10 V variant:	15 ... 35 V ~ / 24 V ~, 50 Hz, SELV		For the detection of temperatures (type TF), of the relative humidity (type FF) or of both temperature and relative humidity (type FTF) and the conversion of the data actually sensed into an electric variable (standard signal 0–10 V / 4–20 mA).
Humidity related accuracy (at 20 °C):	approx. ± 3 % r. h. within the range 40 ... 60% approx. ± 5 % r. h. in the remaining range		
Temperature effect at 45 % r. h.:		typical: -0.05 % r. h. / °C	Specially suited for use as room or duct sensor within the refrigeration-, air conditioning and ventilation engineering or the process technology sphere.
Temperature sensor:		PT1000 (tolerance class B acc. to DIN 60751)	
Measuring range (temperature):		0 ... 50 °C	
Temperature related accuracy:		0 ... 10 V: ca. ± 0.5 °C 4 ... 20 mA: ca. ± 0.8 °C	See page 118 for the compatible microprocessor controller, JDU-210.
Output signal:		see equipment	
Safety and EMC:		acc. to DIN EN 60730	
Operating temperature:		-5 ... +50 °C	
Storage temperature:		-25 ... +60 °C	
Connection:		screw terminals (up to 1.5 mm ²)	
Housing:		plastic (ABS)	

FTF-K



Measuring range (humidity):	10 ... 90 % r. h.	20 ... 95 % r. h.	
Operating voltage for 4 ... 20 mA variant:	20 ... 28 V ~ for R _L < 500 Ω 11 ... 28 V ~ for R _L < 50 Ω	20 ... 35 V ~ for R _L < 500 Ω 11 ... 35 V ~ for R _L < 50 Ω	
Sensor protection:	-	sintered bronze filter	
Degree of protection:	IP 30	IP 65	
Colour:	pure white, similar to RAL 9010	grey (bottom part RAL 7016, upper part RAL 7035)	

Please pay regard to the EMC directives. Avoid parallel laying of sensor line and mains supply cables or use shielded sensor lines.

Index: T = Temperature R = Room installation
 F = Humidity K = Duct installation
 FT = Humidity/temperature, 1 = 0–10 V
 2 = 4–20 mA

e.g. F = sensor → FTF = Humidity/temperature sensor

Type	Item No.	Equipment	Output	PG
FF-R 2	G 8000260	Humidity room sensor	4–20 mA	III
TF-R 2	G 8000261	Temperature room sensor	4–20 mA	III
FTF-R 2	G 8000262	Humidity/temperature room sensor	4–20 mA	III
FF-R 1	G 8000263	Humidity room sensor	0–10 V	III
TF-R 1	G 8000264	Temperature room sensor	0–10 V	III
FTF-R 1	G 8000265	Humidity/temperature room sensor	0–10 V	III
FF-K 2	G 8000266	Humidity duct sensor	4–20 mA	III
TF-K 2	G 8000267	Temperature duct sensor	4–20 mA	III
FTF-K 2	G 8000268	Humidity/temperature duct sensor	4–20 mA	III

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Type	Item No.	Equipment	Output	PG
FF-K1	G 8000269	Humidity duct sensor	0-10 V	III
TF-K1	G 8000270	Temperature duct sensor	0-10 V	III
FTF-K1	G 8000271	Humidity/temperature duct sensor	0-10 V	III

Accessory	Item No.	Equipment	PG
JZ-20-1	E6130144	wall bracket (see page 166)	II

