akribis

DATA SHEET

TEKA-M

Produal

Distributed by AKRIBIS



TEKA-M TEMPERATURE TRANSMITTER / CONTROLLER

TEKA-M Modbus averaging temperature transmitter is designed for automatic ventilating systems to measure large air duct temperatures. Thanks to the special mechanical construction the transmitter is able to detect temperature throughout its entire length. Information of the transmitter can be used to control other device in the HVAC system.

Temperature is measured by four Pt1000 sensor elements. The sensor elements resistance information is converted into a 0…10 V signal and this voltage signal is available also via Modbus. The temperature range can be chosen at the commissioning.

TEKA-M settings can be changed by using the ML-SER tool. One point field calibration of the transmitter can be executed, the temperature output can be changed to the controller function and the communication settings of the Modbus can be configured.

TEKA-M transmitter can be equipped with a 3.5-digit liquid crystal display option TE-N V2. The display resolution is 0.1 °C.

Housing is made of heat resistant plastics. The bayonet cover and the terminal blocks tilted to 45° make an easy installation. Transmitter is mounted to the duct by means of an adjustable duct connection flange and springs for the optimal temperature measurement. 6 m length TEKALP is available on special request.

Range selection

0…+50 °C	*0…+100 °C	-50…+50 °C	-50…+150 °C
S1 S2	S1 S2	S1 S2	S1 S2



* = factory setting

Output signal

0…+50	0…+100	-50…+50	-50…+150	Signal
0 °C	0 °C	-50 °C	-50 °C	0 V
25 °C	50 °C	0 °C	50 °C	5 V
50 °C	100 °C	50 °C	150 °C	10 V



Technical data:

supply voltage	24 Vac/dc < 1 VA (22…30Vac/dc)
sensor	4 x Pt1000 EN 60751/B
output 1	0…10 Vdc < 2 mA (temp. / controller)
output 2	RS-485 Modbus/RTU
temperature range	selectable
duct mounting	Ø 10 mm hole and flange, 3 springs
measuring element	3 m
housing	plastics (< 120 °C)
protection class	IP54, cable entry or stem down
cable entry	M16
accuracy	± 0.5 °C (at 50 °C)
ambient temperature	0…+60 °C

Wiring:

1	supply 24 Vac/dc
2	0 V
3	output 0…10 Vdc (temperature / controller)
4	Modbus A+
5	Modbus B-

Ordering guide:

Model	Product number	Description
TEKA-M	117Z130	Modbus averaging temperature transmitter
TE-N V2	1170250	display module (cover)
ML-SER	1139010	transmitter commissioning tool

Products fulfill the requirements of directive 2004/108/EC and are in accordance with the standards EN61000-6-3: 2001 (Emission) and EN61000-6-2: 2001 (Immunity).

Information is subject to change without prior notice.