

HMT08

Head Type Temperature Converter USER'S GUIDE



DEVICE DESCRIPTION

HMT08 Model devices are designed to connect with industrial temperature sensors and convert the measurement signal to 4-20mA analog signal.

These devices can easily configurable by pc using SBA100 USB/UART converter with OTC01 program.

These devices are mounting in the temperature sensor's head (DIN form B) with screws.

Power supply and measurement signal can be transmit on the same wire. So user only need 2 wire to transmit measurement signal to long distances.

These devices are manufactured as two types: isolated and non-isolated.

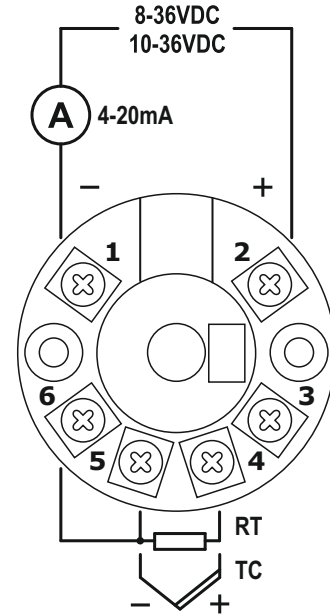
WARNINGS

- Before using the device, please read the warnings below and this guide carefully.
 - The accidents and damages resulting from not following the warnings included in this guide are under user's responsibility.
 - This device prepared to use by authorized personal in industrial environments. Do not use other environments like home.
 - Do not use this device in the environments that contain explosive or flammable gases.
 - Take the necessary precautions in order to prevent accidents and damages that may result in case the device gets faulty.
 - Do not allow metal fragments or lead wire scraps or liquid matters to fall inside this device.
 - Device will be out of guaranteed when it gets faulty resulted from misusages.
 - Do not power up the device before the connections related with the device are performed in accordance with connection diagram. Do not touch the terminals while device is energised.
 - Device should be used in the limits of that is mentioned in this guide.
 - Sensor and signalling cables should not be routed close to the power cables with high current and voltage.
 - Default settings must be changed by the user before using the device.
- Damages that because of misconfiguration is under user's responsibility.
- This device designed to be working life as 10 years.
 - Do not make changes and do not try to repair the device. These operations must be made by authorized service.

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CONNECTION DIAGRAM



PRODUCT CODE

HMT08 -

Isolation
0 N/A
1 1500VDC

IMPORTANT NOTE :

Please use HMT08-1 type transmitters with high temperature sensors and not isolated sensors like gorunded temp. sensors.

Technical Specifications

Power Supply (PS)	10-35 VDC
Input	Thermocouple= B,E,J,K,L,N,R,S,T,U Resistance Thermometer = Pt-100
Thermocouple Input Impedance	10MΩ
Output	Current : 0/4-20mA , 20-4mA
Memory	100 years, 100.000 renewals
Accuracy	+/- % 0,2
Sampling Period	100 ms
Environment Temperature	Working = -20...+70°C Storage = -40...+85°C
Dimensions	Dimensions = 44 mm Height = 16 mm
Weight	55 gr

Sensor Type	Standard	Min.	Max.
Type-T (Cu-Const)	IEC60584	-200 °C	300 °C
Type-U (Cu-Const)	IEC60584	-200 °C	600 °C
Type-J (Fe-Const)	IEC60584	-200 °C	800 °C
Type-L (Fe-Const)	IEC60584	-200 °C	900 °C
Type-K (NiCr-Ni)	IEC60584	-200 °C	1200 °C
Type-E (Cr-Const)	IEC60584	-200 °C	1200 °C
Type-N (Nicrosil-Nisil)	IEC60584	0 °C	1200 °C
Type-S (Pt%10Rh-Pt)	IEC60584	0 °C	1500 °C
Type-R (Pt%13Rh-Pt)	IEC60584	0 °C	1600 °C
Type-B (Pt%18Rh-Pt)	IEC60584	0 °C	1800 °C
Pt-100	DIN 43760	-200 °C	850 °C

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