

Temperature Transmitter TM 2500

Description:

The Temperature Transmitter TM 2500 (Transmitter) is designed for temperature measurement in range from -200°C to $+800^{\circ}\text{C}$ and is suited as well for industrial use also for laboratory applications. It is a simple, reliable device with favourable price.

There are 3 light diodes (LED) on the front panel:

green LED: The Transmitter is powered on.

yellow LED: The Sensor is not connected to the Transmitter or this connection is interrupted.

red LED: The output signal is outside of the range, i.e. the actual temperature exceeded the upper limit of the range. One potential-free contact is optionally available in order to transmit this error message on control system.

Note: also further functions can be integrated in accordance with your demand, for example controlling of output signal under the low limit of the range etc.,

The connection between sensor and Transmitter is arranged in three-wires technique on a type, that all advantages of the four-wires technique can be achieved. Therefore a 3- instead of 4-wires cables can (und have to) be used, so the considerable cable saving can be achieved almost at the large facilities with much measurement loops.



Fig. 1 rail mount housing according to DIN EN 50022)



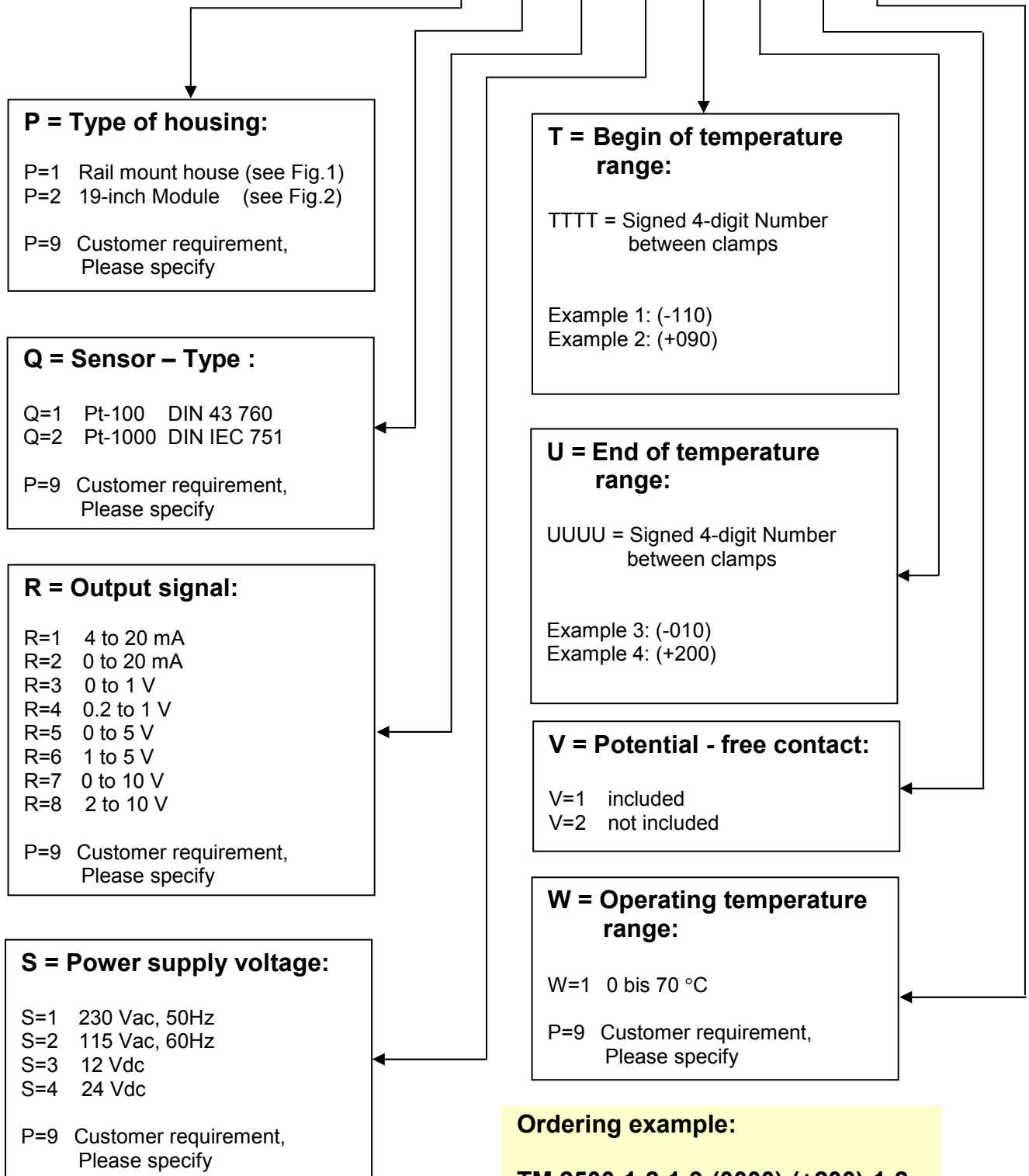
Fig. 2 19-inch Module in Europe format size 160x100mm)

*** The possible range according to DIN 43 760. At ranges with span larger than 300°C we recommend the digital type of this device whit linearization circuit for Pt-Sensors. Please contact us in this case.**

To order please use the key:

Temperature -Transmitter

TM 2500 – P – Q – R – S – T – U – V – W



P = Type of housing:
 P=1 Rail mount house (see Fig.1)
 P=2 19-inch Module (see Fig.2)
 P=9 Customer requirement,
 Please specify

Q = Sensor – Type :
 Q=1 Pt-100 DIN 43 760
 Q=2 Pt-1000 DIN IEC 751
 P=9 Customer requirement,
 Please specify

R = Output signal:
 R=1 4 to 20 mA
 R=2 0 to 20 mA
 R=3 0 to 1 V
 R=4 0.2 to 1 V
 R=5 0 to 5 V
 R=6 1 to 5 V
 R=7 0 to 10 V
 R=8 2 to 10 V
 P=9 Customer requirement,
 Please specify

S = Power supply voltage:
 S=1 230 Vac, 50Hz
 S=2 115 Vac, 60Hz
 S=3 12 Vdc
 S=4 24 Vdc
 P=9 Customer requirement,
 Please specify

T = Begin of temperature range:
 TTTT = Signed 4-digit Number
 between clamps
 Example 1: (-110)
 Example 2: (+090)

U = End of temperature range:
 UUUU = Signed 4-digit Number
 between clamps
 Example 3: (-010)
 Example 4: (+200)

V = Potential - free contact:
 V=1 included
 V=2 not included

W = Operating temperature range:
 W=1 0 bis 70 °C
 P=9 Customer requirement,
 Please specify

Ordering example:
TM 2500-1-2-1-9-(0000)-(+200)-1-2
S=9 Customer power supply
voltage: 48 Vdc