SenSonic

Temperature Measuring System

Measuring temperature in procespipes without welding in a sensor pocket

> **M12 industri-connector**
> **2-wire transmitters**
> **Quick setup from standard PC over connector pins with**
> **PR Loop Link 5905 communication interface**

Transmitter types:

Standard:
STT1000FSA (PR 5333A)
STT1000FSB (PR5333D/ ATEX)

Insolated:
STT1000FIA (PR 5331 A3B)
STT1000FIB (PR5331 D3B / ATEX)

Hart Protocol Insolatet
STT1000FHA (PR 5335A)
STT1000FHB (PR5335D / ATEX)

Profibus PA and Foundation Fieldbus
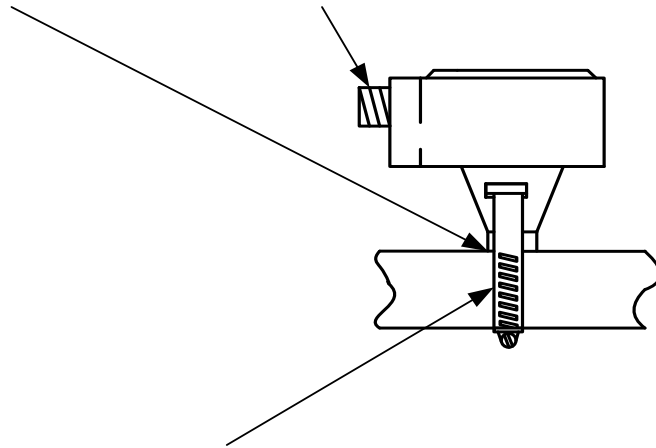STT1000FPA (PR 5350A)
STT1000FPB (PR 5350B ATEX)

Technical data:

PT100 sensor   : Class 1/3 Din B curve
Where accuracy in °C is better than ± (0,1 +(measured temperature x 0.0017))
Span   : -40 til 180°C
Ambint temperature (TA)   : -30 til 85°C
Output / consumption current   : 4 til 20 mA
Enclosure   : IP68
Accuracy   : ±0,25% F.S.±0,2 °C
Measuring error due to thermal loss (typ.): Measured value -0,35%
Adjusted during the setup of the sensor, (eg span 0-100, set span to 100-0,35% = 99,65)

Measure on pipes with dimensions from 4DN and upwards. From 4DN to 8DN a special centering -and insulating adapter type ADPT-04, should be used.
Other data depends on electronic unit

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Mounting Instructions:

Heat conducting paste, type HTSP (-50 to 200°C), is applied to the sensor before mounting it on the process pipe (about 0,01 m.l.)

M12 connector (pin 1= +, pin 2 and pin 3 = -).

Fasten the sensor to the process pipe with steel-stringband
(Cut off length = circumference of the pipe + 30 m.m.).
The stringband have to be tightend, so that the sensor is absplute fastened to the process pipe.
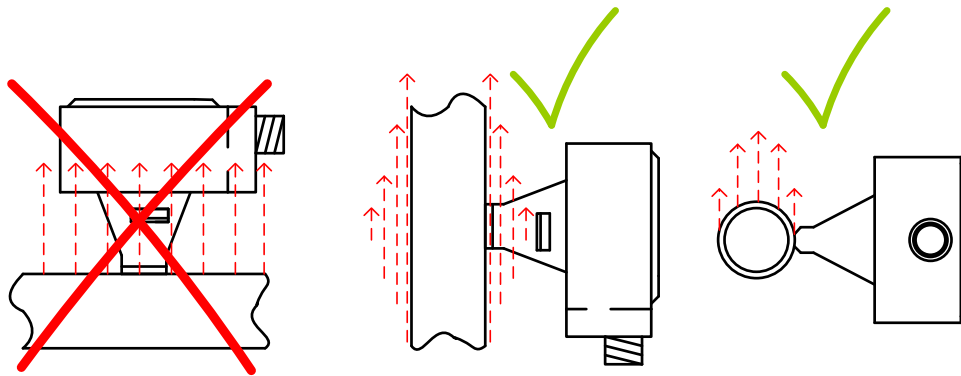Mounting Bracket type SHRS-1000 is recommende (FDA), if the sensor regularly and quickly has to be dismounted and remounted, in exactly the same position.(see mounting accessories on www.sensonic.dk)
At temperatures below 70°C, you can use standard plastic cable stringbands.

High temperatures:

When mounting onto a procespipe, where the temperature exceeds 130°C, follow the instructions on the drawing below, to avoid overheating of the unit.
If the pipe is insulated, keep the electronic part outside the insulation.

Mechanical dimensions mm :

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