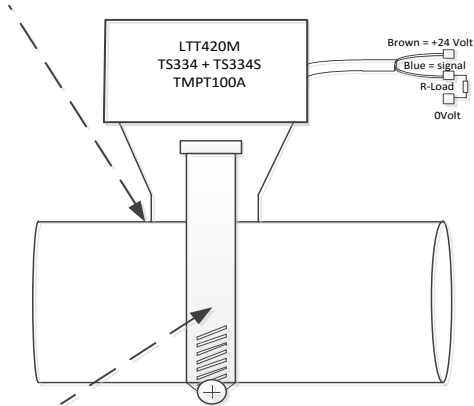


Mounting –and Wiring- instructions

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



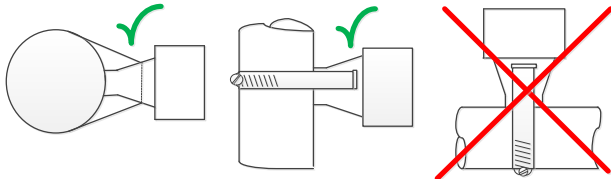
Fasten the sensor to the process pipe with steel-stringband (cut off length = circumference of the pipe + 30 m.m.). The stringband have to be tightend, so that the sensor is absolutely fastened to the process pipe.

Sensor Bracket type LHRS-345 recommended, if the sensor regularly and quickly have to be dismantled 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.

$$\text{R-load LTT420M max (ohm)} = \frac{\text{supply voltage} - 10.5}{0.02}$$

$$\text{R-load TS334/°C max (ohm)} = \frac{\text{supply voltage} - 7}{0.033}$$

When mounting onto a process pipe, where the temperature exceeds 120°C, follow the instructions on the drawing below, to avoid superheating of the unit.



Only mount the sensor on straight pipe parts.



www.sensonic.dk

For further information please contact:



SenSonic Temperature Measuring System



**CLAMP-ON
Temperature sensors**

Idea:

Thermometric tests have shown that the surface temperature corresponds to the temperature of the liquid in a process pipe, if only there is a little flow in the pipe.

The Sensonic surface sensor is designed so that the thermal energy-loss from the measuring point is minimal because of a very efficient self-insulation which gives the best possible temperature measuring.

Advantages:

- Measuring temperature of process pipe without welding in a sensor pocket.
- Minimal thermal loss from the measuring point.
- Measure on pipes with dimensions from 4 DN and upwards.*
- Ideal for aseptic processes.
- Small dimensions.
- Easy to mount.
- Low mounting costs.
- Economical temperature measuring.
- Robust design.

* From 4DN to 8DN, a special centering and insulating adapter, type ADPT-04 should be used.

The surface sensors are available in many versions:

See our new temperature sensors
TTS500FA and TS550FC
on our home page
www.sensonic.dk

- **TS334F(S)/°C**
Temperature switch, 2-wire which changes mode at set point (input to PLC etc).

- **TMPT100FA**
PT100 sensor, 4-wire connection.

TECHNICAL DATA

Dimensions 22mm x 30mm x 28mm

Reaction time $1\tau = 1$ sec.

Protection class = IP 68

TS334F(S)/°C

Supply voltage	7 - 30	VDC
Output/consumption current	3.3 and 33	mA
Off current / temp. < set point	3.3 mA ± 10%	
On current / temp. > set point	33 mA ± 10	
Switch point/optional	-40 – 180	°C
Hysteresis typ.	< 0.3	°C
Accuracy electronic better than	± 0.5	°C
LED indicator for ON/OFF mode		
Sensor accuracy 1/3 din B, see TMPT100FA below		

TMPT100FA

PT100 1/3 din B curve, accuracy in °C better than $\pm(0,1+(\text{measured temperature} \times 0,0017))$	
Measuring range	-40 – 180 °C
Measuring error due to thermal losses typically: (TP-TA) x -0,003 °C (where TP = process temperature and TA=ambient temperature)	
4 wire connection	
Cable length	2 meter **
**other cable length are available	

PT500 and PT1000 types are also available on request.