ST8 Pipe surface temperature probe

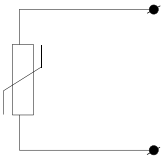
This new developed temperature probe has unique features for measuring on an accurate and quick way the surface temperature of pipes.
The temperature is measured by means of a thin copper contactplate which is pressed on the pipe by means of an integrated tpe ty-rap. Due to a slight hollow curve of the copper contact material the reaction time of the sensor will be very quick, so it accurately follows the fluidtemperature in the tube. When applying heatcompound between the copper contactplate and the pipe itself the accuracy to get the internal fluid temperature measured will significant increase further.

The construction of the probe is designed to realise the smallest heat-radiation to the surrounding air. For this reason the top of the probe has a certain mass of tpe material. Nevertheless it can be advised to integrate the probe with pipe isolation material in order to prevent heat radiation to the surrounding air. Be aware that this also can have negative effects because of the fact that the isolation temperature influences the temperature sensor of the ST8 probe
The probe can be supplied with various sensors, such as: Pt100 – Pt1000 – KTY – NTC etc. The cabling is a single isolated 2-wire (2x0,22 mm2) tpe cable for a min-max temperature condition of : -50..105°C. The standard cable length is 1,5 meter, not standard lengths can be supplied in quantities of > 50 pcs.

ST8-Pt100	Cable l=3mtr	101730
ST8-Pt1000	Cable l=2mtr	101732
ST8-NTC10K	Cable l=1,5mtr	101729

Dimensions	20 x 6 mm
Integrated tyrap	for pipe diameter Ø30mm / the probe can be tightened with a seperate tyrap for > Ø35 mm

Connection diagram



- Pt100
- Pt1000
- NTC10K

SENSOR DATA

postbus 1111
2280 cc rijswijk

handelskade 76
2288 bg rijswijk

tel. 070 3070736
fax 070 3070938

info@sensordata.nl
www.sensordata.nl