

## TEMPERATURE SENSORS

*Low cost temperature protection for heavy duty applications.*

- Small, compact - easy to install.
- Designed for use in harsh working environments and hazardous areas.
- Choice of semiconductor sensors or platinum resistance sensors.
- Maximum reliability for machine condition monitoring.
- Temperature protection in heavy duty applications where space is limited.



### Technical and Electrical Details for TX2070 Temperature Sensors

| <b>TX 2071</b> ANGLED SENSOR PROBE  |   | SEMI-CONDUCTOR ELEMENT   | PT100 ELEMENT   |
|-------------------------------------|---|--|---|
|                                     | <ul style="list-style-type: none"> <li>Standard temperature sensor with choice of angled or in-line header.</li> <li>General purpose machine protection.</li> <li>Standard probe length is 124mm. (100mm INSERTION depth). Other lengths can be supplied to order.</li> </ul> | <ul style="list-style-type: none"> <li>• 0...100°C (11)<br/>Accuracy: 2%.<br/>Device: KTY 21-6<br/>R at 25°C = 1000 ohms.</li> </ul> | <ul style="list-style-type: none"> <li>* 0...200°C (13)<br/>Accuracy: 0.1%.<br/>R at 0°C = 100 ohms.<br/>R at 100°C = 138.5 ohms.<br/>DIN 43760.<br/>BS1904 Class B.</li> </ul> |
| <b>TX 2072</b> IN-LINE SENSOR PROBE | <ul style="list-style-type: none"> <li>• Standard probe length is 124mm. (100mm INSERTION depth). Other lengths can be supplied to order.</li> <li>• Maximum pressure: 100 bar.</li> </ul>  | <ul style="list-style-type: none"> <li>• 0...200°C (12)<br/>Accuracy: 2%.<br/>Device: KTY 84.<br/>R at 100°C = 1000 ohms.</li> </ul> | <ul style="list-style-type: none"> <li>* <b>N.B.</b> Use part of the span for lower temperature ranges.</li> </ul>  |
| <b>TX 2075</b> SURFACE SENSOR       | <ul style="list-style-type: none"> <li>• Surface temperature sensor: transformers, motors, enclosures, brake shoes, bearings, tanks, covers, vessels.</li> </ul> <p>All dimensions in mm.</p>   | <p><b>CONNECTIONS</b></p> <p>3m x 2 core, 1mm<sup>2</sup> PTFE insulated flexible cable.<br/>Maximum Temp: 220°C.</p>                | <p><b>CONNECTIONS</b></p> <p>3m x 4 core, 1mm<sup>2</sup> PTFE insulated flexible cable.<br/>Maximum Temp: 220°C.</p>   |

## Order Reference

**TX2071** ANGLED SENSOR PROBE.

**TX2072** IN-LINE SENSOR PROBE.

**TX2075** SURFACE SENSOR.

*Please specify additional information:*

| SENSING DEVICE:           |        |
|---------------------------|--------|
| KTY21-6 • 0...100°C       | (11)   |
| KTY84 • 0...200°C         | (12)   |
| PT100 • 0...200°C         | (13)   |
| <hr/>                     |        |
| Non Standard Probe Length | mm     |
| Non Standard Cable Length | metres |

## Accessories

### CABLE PROTECTION

ALL TEMPERATURE SENSOR PROBES CAN BE SUPPLIED WITH ADDITIONAL CABLE PROTECTION FOR ARDUOUS OPERATING DUTY & HEAVY MACHINERY APPLICATIONS.

High temperature PVC sheathed, flexible conduit provides maximum protection against shock and impact and is completely impervious to dust and fluids.

Supplied complete with compression couplings.

*Cable protection is normally factory fitted but can also be fitted on site if preferred.*

**TX2001 FLEXIBLE CONDUIT.**

High grade flexible conduit.

Electro galvanised steel spiral with PVC sheath.

Temperature: -20...110°C.

Supplied in metre length units.

*Please specify length required.*

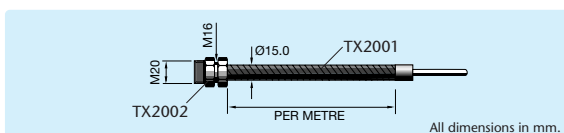


**TX2002 COMPRESSION COUPLING.**

M16 waterproof compression coupling.

Nickel plated brass.

(Supplied with M20 / M16 reducer).



## Monitoring Systems

**SINGLEWAY & MULTIWAY TEMPERATURE MONITORING MODULES**



**TX9030/TX9130 Series**

**TX9010 Series**



**TX9042/TX9044**



### MOUNTING OPTIONS

**TX2073 MOUNTING BUSH.**

Mounting Bush with Clamping Ring.

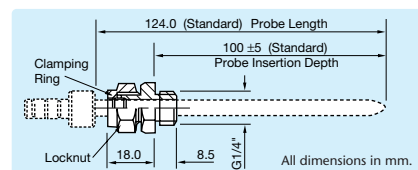
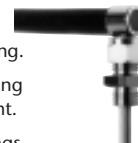
Permits depth adjustment of sensing probe and convenient replacement.

Castings, vessels, housings, bearings, brake shoes, etc.

Maximum Pressure: 100 bar.

Material: Brass.

Probe Length = Insertion depth +24mm.



**TX2074 MOUNTING POCKET.**

Thermo Pocket with Clamping Ring.

Permits removal of sensing probe when used in vessels and pipes.

Maximum Pressure: 100 bar.

Material: Brass.

Probe Length = Insertion depth +24mm.

*Please specify insertion depth if non standard.*

