Technical Information

# Model TES.02.23

*AERONAUTIC Sector*

## Gear-box temperature sensor

| | |
|---|---|
| **Description** | Temperature sensor “NI 90.38” type for oil.<br>Sheath AISI 304 diameter 5,5 mm.<br>Electrical connector MS series model D38999/26K<br>Process connection 5/16” 18 UNC male. |
| **Sensor Type** | NI 90,38 ohm |
| **Sensor Number** | Single |
| **Precision** | According to MIL-T-7990B |
| **Working Temperature** | -55 / +150 °C |
| **Short Time Temperature** | +190 °C |
| **Sensor Sheath** | Material: AISI 304<br>Passivation: according to SAE AMS 2700B<br>Diameter: 5,5 mm<br>Lenght: 19 mm |
| **Process Connection** | Threaded joint<br>Thread: 1/2” – 20UNJF – 3A<br>Type: fixed<br>Material: AISI 304 passivated according to SAE AMS 2700B<br><br>*** on request other dimensions** |
| **Electrical Connection** | Connector MS series model D38999/25Y A35PN<br><br>*** on request other connector type** |
| **Laser Marking** | Thermo Engineering Logo<br>Thermo Engineering P/N<br>Customer P/N<br>dd/mm/yy di produzione<br><br>*** on request other marking** |
| **Test** | Visual<br>Dimensional<br>Room temperature insulation resistance<br>Electrical continuity<br><br>*** on request other test available** |
| **IP Grade** | IP65 in accordo a UNI EN 60529 |
| **Insulation Resistance** | According to IEC 1515 insulation resistance > 1GΩ @ 25 °C; between terminals and the sheath with a test voltage of 500 VDC. |

| | |
|---|---|
| **Response Time** | $t_{50}$: 4 sec<br>$t_{90}$: 10 sec |
| **Certifications** | Conformity certificate<br>Conformity certificate RoHS 2002/95/CE |