# Technical Information

## Model TES.05.03

**POWER & ENERGY Sector**

Temperature sensor with spring loaded for stator caves

<table>
<thead>
<tr>
<th>Description</th>
<th>Temperature sensor with dual PT100 element for temperature measurement in stator caves. Sheath in AISI 316 with teflon tip with springing system for fastening. Extension cable with teflon MFA insulation with and teflon FMA Sheath and tinned copper internal shield.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensor Type</td>
<td>PT100 OHM</td>
</tr>
<tr>
<td>Sensor Number</td>
<td>2</td>
</tr>
<tr>
<td>Precision</td>
<td>Class 1 DIN according to EN60751</td>
</tr>
<tr>
<td>Working Temperature</td>
<td>-40 / +155 °C</td>
</tr>
<tr>
<td>Short Time Temperature</td>
<td>+200 °C</td>
</tr>
</tbody>
</table>
| Sensor Sheat | Material: AISI 316  
Diameter: 6,0 mm  
Length: from 135 to 205 mm  
Internal insulation: Teflon MFA  
Tip : teflon ø 8,0 mm L=15 mm |
| Process Connection | Sliding and springed ½ "male threaded fitting. Material: AISI 304 |
| Cable | Diameter: 6,2 mm  
Lenght: 1,00 mt |
| Electrical Connection | Bare outlet conductors L = 80 mm |
| CONDUCTORS | number: 6  
electrical section: 0,50 mm2  
type: strand  
material: tinned copper  
insulation: MFA teflon  
internal shield: tinned copper  
external shield: none |
| COLOURING | standard: DIN  
conductors: 4 x red / 2 x green |
| Laser Marking                           | Thermo Engineering Logo  
|                                      | Thermo Engineering P/N  
|                                      | Customer P/N  
|                                      | dd/mm/yy production  
|                                      | * on request other marking  
| Tests                                  | Visual  
|                                      | Dimensional  
|                                      | Room temperature insulation resistance  
|                                      | Electrical Continuity  
|                                      | * on request other test  
| IP Grade                               | IP65 according to UNI EN 60529  
| Room Temperature Insulation Resistance | According to IEC 1515 resistance > 1Ω @ 25 °C; between the terminals and the sheath with a test voltage of 500 VDC.  
| Respons Time                           | t₅₀: 4 sec  
|                                      | t₉₀: 10 sec  
| Certifications                         | Conformity Certificate  
|                                      | Conformity Certificate RoHS 2002/95/CE  