

## Technical Information

**Model TES.03.01***AUTOMOTIVE Sector***Temperature sensor for exhaust gas**

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<b>Description</b>	Temperature sensor thermocouple type "K" for exhaust gas. Inconel 600 sheath diameter 6 mm tapered to 3,17 mm, mineral oxide insulation, kapton conductor insulation, kapton insulation sheath and outer armor in AISI 316, complete with two contacts AMP connector.
<b>Sensor Type</b>	Thermocouple "K" type hot joint insulated
<b>Sensor Number</b>	1
<b>Precision</b>	Class 1 (special) according to EN60584
<b>Working Temperature</b>	-40 / +990 °C
<b>Short Time Temperature</b>	+1010 °C
<b>Sensor Sheat</b>	Material: INCONEL 600 Diameter: 6,0 mm tapered to 3,17 mm Lenght: 75 mm Internal insulation: mineral oxide  <b>* on request other lenght</b>
<b>Process Connection</b>	M10x1 female fixed threaded fitting Material: AISI 304 flange  <b>* on request other fitting</b>
<b>Cable</b>	Diameter: 4,0 mm Lenght: 0,67 mt  <b>* on request other lenght</b>  CONDUCTORS number: 2 section: 0,50 mm <sup>2</sup> type: strand material: thermocouple "K" type insulation: kapton  Insulation sheath: kapton Internal sheath: none External amor: AISI 304  COLOURING standard: ANSI conductors: red (+) ; yellow (-) sheath: yellow  <b>* on request other colouring</b>

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<b>Electrical Connection</b>	AMP connector
<b>Laser Marking</b>	Thermo Engineering Logo Thermo Engineering P/N Customer P/N dd/mm/yy production  <b>* on request other marking</b>
<b>Tests</b>	Visual Dimensional Room temperature insulation resistance Electrical Continuity  <b>* on request other test</b>
<b>IP Grade</b>	IP65 according to UNI EN 60529
<b>Room Temperature Insulation Resistance</b>	According to IEC 1515 resistance > 1GΩ @ 25 °C; between the terminals and the sheath with a test voltage of 500 VDC.
<b>Response Time</b>	t <sub>50</sub> : 4 sec t <sub>90</sub> : 10 sec
<b>Certifications</b>	Conformity Certificate Conformity Certificate RoHS 2002/95/CE

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