

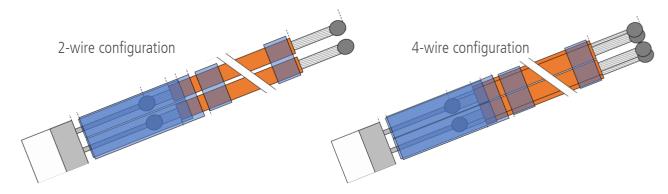
We now not only offer the only Hi-Rel ESCC-certified thin-film platinum temperature sensors but also received the ESCC qualification for their wire extensions.

The Hi-Rel Pt temperature sensors are available with a resistance of of 100 Ω to 2000 Ω , within temperature ranges of -50 °C to +150 °C or -200 °C to +200 °C, with platinum leads only, or with twisted 2-core, or 4-core extension cables beginning from 100 mm up to several meters in length, with or without shield and jacket.

All sensors are available both as flight models (FM) and engineering models (EM) and are also suitable for other High Reliability (Hi-Rel) applications in the aerospace or automotive industries.

The sensors are now available with extension cables in desired lenghts up to 10,000 mm with following configurations:

- with platinum leads only
- with twisted 2-core extension wires
- with twisted 4-core extension cables
- with our without shield and jacket





Contact us!
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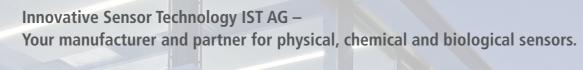
Visit our websit for more Information:

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physical. chemical. biological.



With more than 30 years of experience Innovative Sensor Technology IST AG is one of the world's leading manufacturers of physical, chemical and biological sensors. We specialize in the development and manufacturing of temperature sensors, thermal mass flow sensors and modules, humidity sensors and modules, conductivity sensors and bio sensors.

In addition to our standard products, we offer sensor adaptions to individual, customer-specific application needs - right up to the joint development of new technologies. IST-sensors are characterized by their accuracy and consistency in various measurement conditions. They are used in measuring instruments for various applications.

Out of our state-of-the-art-facilities we manufacture varying quantities from small order numbers to fully automated high-volume manufacturing.

IST AG is a company of the Endress+Hauser Group, headquartered in Reinach, Switzerland.

Endress+Hauser is among the global leaders in measuring instruments, services and solutions for industrial process engineering.



NEXT GENERATION FOR SPACE APPLICATIONS

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Order information

ESCC Qualified Hi-Rel temperature sensor with qualified extended wires

Nomenclature according to ESA Detail Specification 4006/015

Nomenclature according to IST AG Reference

Hi-Rel temperature thin-film sensors

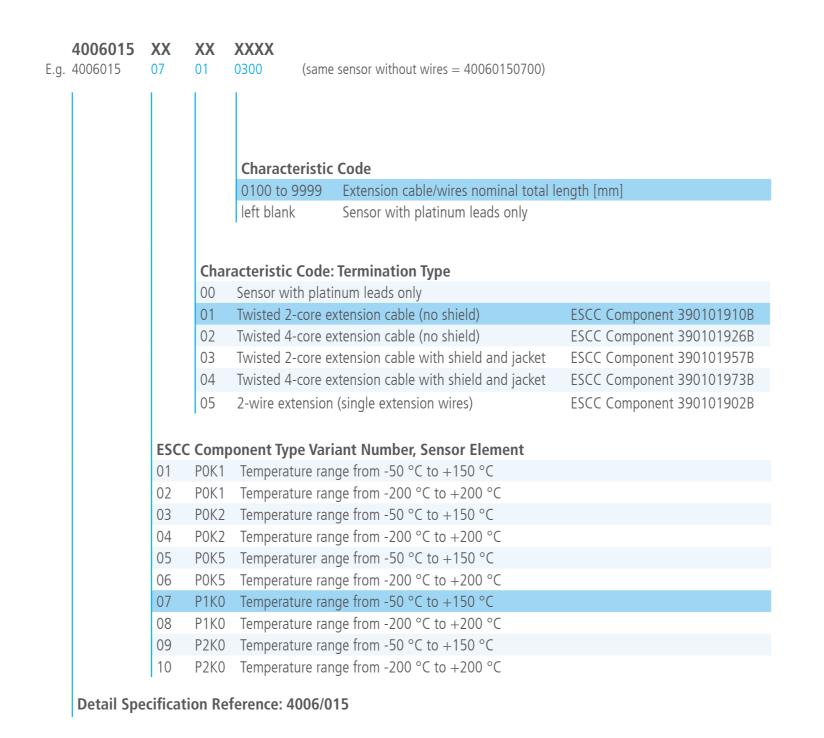
Your benefits compared to a wire-wound sensor:

- Resistant against thermal cycles
- Vibration-resistant
- Small dimensions (W x L x H: 2.0 x 2.2 x 1.1 mm ± 0.2 mm)
- Light weight
- No movable parts
- 10 mm platinum wires
- EM versions available

The platinum wires are designed so they can later be processed, e.g. brazing, resistance-welding, laser-welding, crimping and TIN-soldering (elaborately).

ESCC QPL Qualified Part list (sensor only)

Variant Number	Based on Type (Former order code)	Main Reference (Order code)	Nominal Rz (Ω) at 0°C	Operating Temperature Range Top (°C)	Maximum Operating Current (mA)	Maximum Rated Current (mA)
01	P0K1.232.7W (010.02991)	101410	100	- 50 to +150	1	4
02	P0K1.232.7W (010.02992)	101411	100	-200 to +200	1	4
03	P0K2.232.7W (010.02993)	150026	200	- 50 to +150	0.7	2.8
04	P0K2.232.7W (010.02994)	101412	200	-200 to +200	0.7	2.8
05	P0K5.232.7W (010.02995)	101413	500	- 50 to +150	0.45	1.3
06	P0K5.232.7W (010.02996)	101414	500	-200 to +200	0.45	1.3
07	P1K0.232.7W (010.02997)	101415	1000	- 50 to +150	0.3	1.3
08	P1K0.232.7W (010.02998)	101416	1000	-200 to +200	0.3	1.3
09	P2K0.232.7W (010.02999)	101417	2000	- 50 to +150	0.2	0.9
10	P2K0.232.7W (010.03000)	101418	2000	-200 to +200	0.2	0.9



XXX. 232. X LXX. B. 1K0. 300 Total length from 100 mm up to 10'000 mm **Tolerance class** B IEC 60751 F.03 Wire / cable type 10 ESCC 3901 019 10B 26 ESCC 3901 019 26B 57 ESCC 3901 019 57B 73 ESCC 3901 019 73B 02 ESCC 3901 019 02B Temperature range of sensor element -50 °C to +150 °C -200 °C to +200 °C Chip-Size 232 2.3 x 2.0 mm (LxW) (only qualified chip size) Resistance in Ohm at 0 °C 100 Ohm 200 Ohm 0K2 0K5 500 Ohm 1K0 1000 Ohm 2K0 2000 Ohm Material identification Qualified Flight Model (QP for qualified extended version) Engineering Model (P for engineering extended version)