Product data sheet Characteristics

59641

8 temperature sensor module MET148-2 for Sepam series 20, 40, 60, 80





Main

| Module type | Temperature sensor | |
|-------------------|---------------------|--|
| Range of product | Sepam series 80 | |
| | Sepam series 60 | |
| | Sepam series 80 NPP | |
| | Sepam series 40 | |
| | Sepam series 20 | |
| Device short name | MET148-2 | |

Complementary

| Type of measurement | Temperature |
|-------------------------------|--|
| Number of inputs | 8 |
| Temperature probe type | Ni 100/Ni 120, <4 mA isolation from earth: none Pt 100, <4 mA isolation from earth: none |
| Mounting mode | Fixed |
| Mounting support | Symmetrical DIN rail |
| Height | 88 mm |
| Width | 144 mm |
| Depth | 30 mm |
| Net weight | 0.2 kg |
| Mechanical robustness | Earthquakes in operation (level: 2): 1 Gn (vertical axes) conforming to IEC 60255-21-3 Earthquakes in operation (level: 2): 2 Gn (horizontal axes) conforming to IEC 60255-21-3 Jolts de-energized (level: 2): 20 Gn/16 ms conforming to IEC 60255-21-2 Shocks de-energized (level: 2): 27 Gn/11 ms conforming to IEC 60255-21-2 Shocks in operation (level: 2): 10 Gn/11 ms conforming to IEC 60255-21-2 Vibrations de-energized (level: 2): 2 Gn, 10 Hz150 Hz conforming to IEC 60255-21-1 Vibrations in operation (level: 2): 1 Gn, 10 Hz150 Hz conforming to IEC 60255-21-1 Vibrations in operation (level: Fc): 2 Hz13.2 Hz, a = +/- 1 mm conforming to IEC 60068-2-6 |
| Auxiliary connection terminal | Earthing terminal: screw-type connectorscable <1000 m Earthing terminal: screw-type connectorstinned copper braid 6100 mm² <1000 m RTDs: screw-type connectors1 cable(s) wire 0.22.5 mm² RTDs: screw-type connectors2 cable(s) wire 0.21 mm² |

| Maximum distance between sensor and module | 1 km |
|--|----------------------------|
| Tightening torque | Earthing terminal: 2.2 N.m |

| Environment | |
|---------------------------------------|--|
| Electromagnetic compatibility | 1 MHz damped oscillating wave: (immunity tests-conducted disturbances), 2.5 kV CM, 1 kV DM, conforming to IEC 60255-22-1 |
| | 1 MHz damped oscillating wave: (immunity tests-conducted disturbances), 2.5 kV CM, 2.5 kV DM, conforming to ANSI C37.90.1 |
| | 100 kHz damped oscillating wave: (immunity tests-conducted disturbances), 2.5 kV CM, 1 kV DM, conforming to IEC 61000-4-12 |
| | Conducted disturbance emission: (emission tests), conforming to IEC 60255-25 |
| | Conducted disturbance emission: (emission tests), A, conforming to EN 55022 |
| | Disturbing field emission: (emission tests), conforming to IEC 60255-25 |
| | Disturbing field emission: (emission tests), A, conforming to EN 55022 |
| | Electrostatic discharge: (immunity tests-radiated disturbances), 8 kV air, 4 kV contact, conforming to ANSI C37.90.3 |
| | Electrostatic discharge: (immunity tests-radiated disturbances), 8 kV air, 6 kV contact, conforming to IEC 60255-22-2 |
| | Fast transient bursts: (immunity tests-conducted disturbances), 4kV, 2.5 kHz, conforming to ANSI C37.90.1 |
| | Fast transient bursts: (immunity tests-conducted disturbances), A and B, 4kV, 2.5 kHz/2 kV, 5 kHz, conforming to IEC 60255-22-4 |
| | Fast transient bursts: (immunity tests-conducted disturbances), IV, 4kV, 2.5 kHz, conforming to IEC 61000-4-4 |
| | Immunity to conducted RF disturbances: (immunity tests-conducted disturbances), III, 10 V, conforming to IEC 60255-22-6 |
| | Immunity to magnetic fields at network frequency: (immunity tests-radiated disturbances), IV, 30 A/m (continuous)-300 A/m (1-3 s), conforming to IEC 61000-4-8 |
| | Immunity to radiated fields: (immunity tests-radiated disturbances), 10 V/m, 80 MHz1 GHz, conforming to IEC 60255-22-3 |
| | Immunity to radiated fields: (immunity tests-radiated disturbances), 35 V/m, 25 MHz1 GHz, conforming to ANSI C37.90.2 |
| | Immunity to radiated fields: (immunity tests-radiated disturbances), III, 10 V/m, 80 MHz2 GHz, conforming to IEC 61000-4-3 |
| | Surges: (immunity tests-conducted disturbances), III, 2 kV CM, 1 kV DM, conforming to IEC 61000-4-5 |
| | Voltage interruptions: (immunity tests-conducted disturbances), 100 $\%$ during 100 ms, conforming to IEC 60255-11 |
| Climatic withstand | Influence of corrosion/gaz test 2 (in operation) : 21 days, 75 % RH, 25 °C, 0.5 ppm H2S, 1 ppm S02 conforming to IEC 60068-2-60 |
| | Influence of corrosion/gaz test 4 (in operation) : 21 days, 75 % RH, 25 °C, 0.01 ppm H2S, 0.2 ppm S02, 0.2 ppm NO2, 0.01 ppm Cl2 conforming to IEC 60068-2-60 |
| | Continuous exposure to damp heat (in operation) : Cab: 10 days, 93 % RH, 40 °C conforming to IEC 60068-2-78 |
| | Continuous exposure to damp heat (in storage) : Cab: 56 days, 93 % RH, 40 °C conforming to IEC 60068-2-78 |
| | Continuous exposure to damp heat (in storage) : Db: 6 days, 95 % RH, 55 °C conforming to IEC 60068-2-30 |
| | Exposure to cold (in operation) : Ad: - 25 °C conforming to IEC 60068-2-1 |
| | Exposure to cold (in storage): Ab: - 25 °C conforming to IEC 60068-2-1 |
| | Exposure to dry heat (in operation): Bd: 70 °C conforming to IEC 60068-2-2 |
| | Exposure to dry heat (in storage): Bb: 70 °C conforming to IEC 60068-2-2 Salt mist (in operation): Kb/2: 6 days conforming to IEC 60068-2-52 |
| | Temperature variation with specified variation rate (in storage): Nb: - 25 °C to 70 °C, 5 °C/min |
| | conforming to IEC 60068-2-14 |
| Ambient air temperature for operation | -2570 °C |
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Packing Units

| r doking office | |
|------------------------------|---------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Weight | 240 g |
| Package 1 Height | 6.1 cm |
| Package 1 width | 12.3 cm |
| Package 1 Length | 18.3 cm |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 8 |
| | |

| Package 2 Weight | 2.2 kg | |
|------------------|--------|--|
| Package 2 Height | 15 cm | |
| Package 2 width | 30 cm | |
| Package 2 Length | 40 cm | |

Offer Sustainability

| REACh Declaration | |
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| | |
| Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration | |
| Yes | |
| Yes | |
| China RoHS declaration | |
| Product Environmental Profile | |
| End of Life Information | |
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