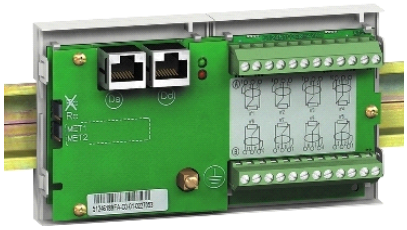
Product datasheet
Characteristics

59641
8 temperature sensor module MET148-2 for Sepam series 20, 40, 60, 80



Main

Module type	Temperature sensor
Range of product	Sepam series 20 Sepam series 40 Sepam series 80 Sepam series 80 NPP Sepam series 60
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
Product 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) : 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 Hz...150 Hz conforming to IEC 60255-21-1 Vibrations in operation (level: 2) : 1 Gn, 10 Hz...150 Hz conforming to IEC 60255-21-1 Vibrations in operation (level: Fc) : 2 Hz...13.2 Hz, a = +/- 1 mm conforming to IEC 60068-2-6
Auxiliary connection terminal	RTDs : screw-type connectors 1 cable(s) wire 0.2...2.5 mm² RTDs : screw-type connectors 2 cable(s) wire 0.2...1 mm² Earthing terminal : screw-type connectors cable <= 1000 m Earthing terminal : screw-type connectors tinned copper braid 6...100 mm² <= 1000 m
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 Disturbing field emission emission tests conforming to IEC 60255-25 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 Immunity to radiated fields immunity tests-radiated disturbances (10 V/m, 80 MHz...1 GHz) conforming to IEC 60255-22-3 Immunity to radiated fields immunity tests-radiated disturbances (35 V/m, 25 MHz...1 GHz) conforming to ANSI C37.90.2 Voltage interruptions immunity tests-conducted disturbances (100 % during 100 ms) conforming to IEC 60255-11 Fast transient bursts immunity tests-conducted disturbances : IV (4kV, 2.5 kHz) conforming to IEC 61000-4-4 Immunity to radiated fields immunity tests-radiated disturbances : III (10 V/m, 80 MHz...2 GHz) conforming to IEC 61000-4-3 Disturbing field emission emission tests : A conforming to EN 55022 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 : A and B (4kV, 2.5 kHz/2 kV, 5 kHz) conforming to IEC 60255-22-4 Immunity to conducted RF disturbances immunity tests-conducted disturbances : III (10 V) conforming to IEC 60255-22-6 Conducted disturbance emission emission tests : A conforming to EN 55022 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 Surges immunity tests-conducted disturbances : III (2 kV CM, 1 kV DM) conforming to IEC 61000-4-5
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 CI2 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 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	-25...70 °C

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0928 - Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available