

M-THERMO2 HV (multi plug)

4 High voltage thermocouple measurement inputs type K (NiCr/NiAl)

- Multi channel high voltage safety connector
- Cold junction compensation per channel
- Status LED at each measurement channel
- Measurement data output to CAN
- Galvanic isolation, unipolar up to 846 VDC
- Approved applications according to CAT I and CAT II
- Designed for engine compartment applications
- Toolless module to module connection
- Ruggedized and compact modules for harsh environments



Device	
Maximum input protection voltage (channel)	±50 V (indefinitely), ±200 V (short-time, t < 2 ms)
Channel sampling rates	1/ 2/ 5/ 10/ min – 1/ 2/ 5/ 10/ 20/ 50/ 100 Hz
Aggregate sample rate	400 Hz
Voltage supply	9 ... 36 VDC
Supply voltage thresholds	Switch-on 9 ±0.3 VDC / Switch-off 6 ±0.3 VDC
Power consumption, typical	0.9 W
Working temperature range	-40 ... 105 °C (-40 ... 221 °F)
Storage temperature range	-55 ... 150 °C (-67 ... 302 °F)
IP-Code	IP 67 (ISO 20653 - 2013)
Relative humidity	5 ... 95 %
Dimensions	W106 mm x H60 mm x D100 mm (4.17 in x 2.36 in x 3.94 in)
Weight	600 g (1.32 lb)
Configuration interface	CAN high speed
Data transfer rate	Software selectable up to 1 Mbit/s (ISO 11898-2)
Test standards	IEC 61010-2-201
Input sockets	Lemo CKB.H08.SLKG (8-Pin)
Galvanic isolation	
Input module power supply	846 VDC
Input CAN	846 VDC
Input enclosure	846 VDC
Input input	846 VDC
Test voltage	3536 VAC @ 50 Hz (sine wave)
Application according to CAT I	846 VDC
Application according to CAT II	600 VAC @ 50 ... 60 Hz (sine wave)
General channel properties	
A/D converter	24 bit (Sigma/Delta)

Sensor break detection	Activation via software settings
Channel LED	Available
Flashing mode of channel LED	Break detection - permanent active
Flashing mode of channel LED	During configuration - blinking
Channel impedance	3.94 M Ω
Hardware filter (fixed)	10 Hz, filter type RC-low-pass
Channel temperature	
Measurement range temperature	Typ K (NiCr/NiAl) -60 ... 1370 °C (-76 ... 2498 °F)
Accuracy at ambient temperature 25 °C	±0.035 % for full measurement range
Drift bei Umgebungstemperatur -40 ... 125 °C	±20 ppm/K
Linearization of sensor characteristic line	Numerical interpolated
Cold junction compensation (CJC)	PT100 for each input
Accessories	
System cabel	620-561.pdf
System cabel	620-502.pdf
System cabel	620-560.pdf
System cabel	620-567.pdf
System cabel	620-509.pdf
System cabel	M-CAN-ABS.pdf
System cabel	M-DEF-200.pdf
Input cable	SEN-THE-HV-xx4.pdf