HBA

CAN 20270

SOMJT^{C2}

From ice cold to white hot

Rugged, mobile temperature acquisition with SomatCR





- _____ Shock resistant
- ____ Compatible with any CAN input
- _____ High channel density
- ____ Easy wiring



SOMAT C?

From ice cold ...

Maximum flexibility and highest security... for your temperature data acquisition in industrial applications

Capture temperatures simply and easily using the new SomatCR, the latest addition to HBM's product range of rugged data acquisition systems. The HBM SomatCR (CAN Ruggedized Series) Isolated Thermocouple module is part of the new product family of rugged, mobile, CAN-based data acquisition modules.

Advantages

- Compact for a flexible distributed network of HBM world class signal conditioning in any environment
- _____ Engineered to operate within extreme temperature ranges from -40 to 125 °C
- ____ Fully sealed unit / IP65 degree of protection allowing direct measurements in the test object, which reduces cabling, test setup and overall costs
- Each channel has individual cold junction compensation with isolation up to 500 volts and an independent software selectable sample rate from 0.2 to 200 Hz
- ____ 16 contiguous inputs in one rugged package
- Excellent precision (low pass/digital filtering, linearization, temperature compensation)
- Configuration of all CAN parameters (standard CAN, sample point, identifier)
- ____ Ease of use SomatCR Assistant software for configuration
- ____ Accredited calibration
- Power supply range ideal for all automotive power systems 12/24/42V



Applications

Possible test objects include engine enclosures, gearboxes, pumps, power generators and many other industrial applications. SomatCR modules are easy to install in compact spaces and can be effortlessly secured through simple zip-ties.

-40 °C

HAN

CAN 20270

... to white hot



Technical specifications at a glance		
Inputs	16 NiCr-Ni (type K, J or T)	
Measurement range	-100 °C to +1372 °C	
ADC resolution	16 bit	
Channel sample rates (per channel)	0.2 to 200 Hz	
Input protection	\pm 60V permanent with additional ESD protection	
Galvanic isolation	500VDC (chnl/chnl chnl/CAN pwr/CAN)	
CAN interface type	CANopen complies with CAN 2.0 B HS 11898	
Status indication	LEDs	
Connectors – CAN/pwr (integrated)	LEMO 5 pin (power int)	
Connectors – channel	Miniature thermo connectors	
Power requirements	8 - 42 VDC	
Dimensions	W200 mm x H33 mm x D50 mm 🔪	
Weight	Approx. 500 g	
Operating temperature	-40 °C to +125 °C	
Case protection	IP65	

+125 °C

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Integral part of the HBM Somat eDAQ product group

SomatCR modules are also ideally designed to interface with HBM Somat eDAQ, eDAQlite, MGCplus and QuantumX. A single module can be powered directly from the CAN connectors on a Vehicle Network Communications (ECOM or ELCOM) layer.



Maximum flexibility and compatibility

Each module can have up to 16 thermocouples applied with just one CAN line connecting it to your chosen DAQ system or PC, thus reducing time and space requirements.

- Compatible with any CAN ISO 11898 2.0B-based system or directly onto a vehicle network
- _____ Full support of the CANopen standard
- Communication parameters through various configurable items such as selectable CAN baud rate from 20 kbps to 1 Mbpsg
- ____ Nearly unlimited channel counts by connecting multiple modules



More information at

www.hbm.com/somat-cr

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measure and predict with confidence