

Precise. Rugged. Universal.

Thermo-Scan MiniModules

- ▶ Extremely compact CAN bus measurement modules
- ▶ 8 or 16 NiCr-Ni temperature inputs (Type K), completely **electrically isolated**
- ▶ Internal cold junction compensation per channel
- ▶ Very good measurement precision under all temperature and environmental conditions
- ▶ Unrivaled low power consumption
- ▶ Operating temperature:
-40°C to +125°C (Automotive Version)
-40°C to +85°C (Industrial Version)
- ▶ Robust aluminum housing:
IP65 / IP67 (Automotive), IP50 (Industrial)
- ▶ Good price-performance ratio

The measurement modules of the CSM MiniModule family solve extreme and combine competing demands on automotive measurement technology. Developed for use inside engine compartment, they are designed for extreme temperature and environmental conditions and are very compact. All CSM MiniModules have excellent specifications and a very good price-performance ratio.

Customer driven, only for temperature measurement with thermocouples, 3 different housings are available, which can be combined in any way. Important for handling: All connectors are placed at the front side.

Thermo-Scan 8 (THMM 8)

8-channel module with 8 NiCr-Ni Mini Thermo Connectors. A proper solution for many applications. Cost-efficient, easy and flexible to use.

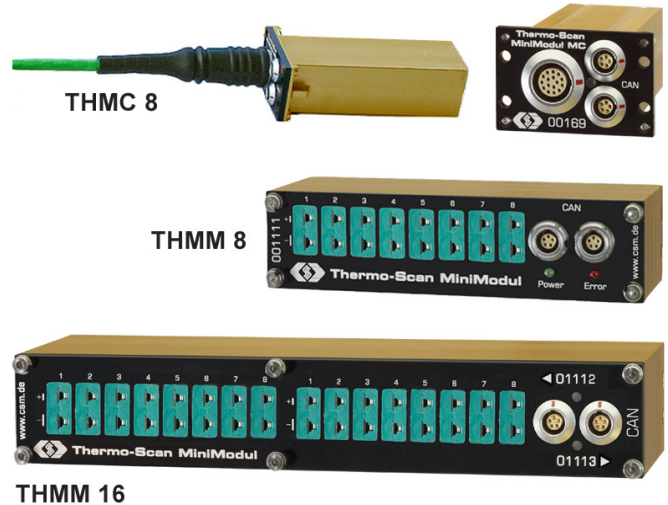
THMM 8 is used mainly as Automotive Version inside engine compartment. For applications with lower environmental demands it is also available as Industrial Version.

Thermo-Scan MC 8 (THMC 8)

8-channel module with 1 NiCr-Ni Multi-Connector. This module can be installed in very small gaps. The signal cable consist of thermocouple wires with teflon cover. The pins of the Multi-Connector are made of NiCr-Ni material, which is very important for measurement accuracy.

This solution is preferred if modules often have to be changed quickly.

THMC 8 is available as Automotive Version only.



Thermo-Scan 16 (THMM 16)

16-channel module with 16 NiCr-Ni Mini Thermo Connectors. This module is particularly suitable for multi channel applications, where space is not extremely limited, e.g. at test stands or in the trunk, therefore best possible channel price is important. In configuration THMM 16 is handled as two THMM 8.

The THMM 16 is available as Automotive and Industrial Version.

On request THMM 16 is also available as THMC 16 with 2 NiCr-Ni Multi-Connectors.

Accessories

Interface cables for CAN and power supply, Connection cables CAN, Adapter cables CAN, Signal cable for THMC, Termination plug and mechanical mounting parts please see data sheet "Accessories for CSM MiniModules".

Item numbers (Standard Versions with LEMO 0B 5-pole for CAN / power supply):

THMM 8 Automotive:	201010
THMM 8 Industrial:	201011
THMC 8 Automotive:	201013
THMM 16 Automotive:	201017
THMM 16 Industrial:	201014
THMC 16 Automotive:	200999

CSM GmbH

Raiffeisenstr. 34, 70794 Filderstadt, Germany
Phone: +49 711 77964-20 Fax: +49 711 77964-40
E-mail: info@csm-products.com
www.csm-products.com



