



General

The HEIM DATaRec 4 CAN4 Module is a 4 channel CAN-bus input module. The module can operate as a standalone front-end (PC connection via USB 2.0) or linked together with additional HEIM DATaRec 4 Modules to a multi channel system via HeimLink. The HEIM DATaRec 4 represents leading edge technology.

4 channel CAN-bus module

Number of channels	4
Operation mode	record or replay or message polling mode
Input data	CAN-bus data
Bus frame identifier	CAN 2.0A, CAN 2.0B (11 or 29 bit)
Galvanic isolation	via optocoupler
Impedance	min. 50 KΩ
Maximum bus bit rate	1 MBPS, bitrate selectable per channel
Record information	message time, identifier field (selectable) control field, data field
Message time accuracy	1 ms
Message time resolution	1 μs
Termination	resistor 124 Ω for each channel
Power consumption	max. 10 watts
Power input range	17 – 28 V DC
Connector	2 x 9-pin D-Sub (female)
Dimensions	standard HEIM DATaRec 4 housing 37.1 x 184 x 124.5 mm (w x h x d) including fixing system
Weight	940 g typical
Communication	HeimLink and USB interface
Display, button, LED	yes

Environmental specifications

Vibration	5 g
Shock	10 g
Temperature operational	IEC 60068-2-14-Nb
Standalone module	-20 °C - 70 °C -30 °C - 70 °C ¹⁾
Link chain system	-10 °C - 55 °C -20 °C - 55 °C ¹⁾
Storage	-40 °C - 85 °C
Humidity	0 - 93% relative, non-condensing
EMI	DIN EN61000 / DIN EN61326 ²⁾

Notes

Performance varies depending on the installation environment. The shown values were measured using an appropriately designed test system including the HEIM DATaRec 4 power supplies under nominal conditions of temperature, voltage, etc..

Performance is significantly influenced by storage medium type, host computer performance and load, used acquisition software, signal module configuration, power supplies and cabling.

- ¹⁾ special start-up procedure required
- ²⁾ for operation in industrial environment (according to DIN EN 61326) earthing of the module and / or shielded cable is necessary to prevent influences by external electromagnetic distortions.

Applications



Miniature system
Single module system with direct link to the PC via USB 2.0



Distributed data acquisition system
Remotely located modules (up to 768 channels)



Compact system
Centralized acquisition system with up to 768 channels



Distributed multi channel system
Remotely located groups of modules (up to 768 channels)



GSS base system, up to six internal Signal Modules



Decentralized system
Base system, module extender and external storage