



Condition Monitoring Interface Module CSI-B-2

RS 232
RS 485
HSI

Description:

The Condition Monitoring Interface Module CSI-B-2 is an additional segment of the HYDAC condition monitoring concept which connects the sensor level with the interpretation level.

It is a universally utilisable electronic device for the conversion of the HSI signal from HYDAC SMART sensors into a standardised PC signal.

Using the HYDAC „CMWIN“ PC software, it is therefore possible to read the data and measured values of the connected SMART sensor directly.

It remains possible to read out the long-term memory and to make settings and parameterisations on the connected sensor (the setting opportunities are sensor-dependent).

The HSI signal can be converted into an RS 232 or an RS 485 signal. The CSI-B-2 can be connected to any PC via the RS 232 interface, and possibly an additional standard RS 232-USB adapter ¹⁾.

The RS 485 interface and appropriate additional coupling modules can also be used to connect to higher-level control and/or bus systems.

¹⁾ RS 232/USB adapter is not supplied with the device.

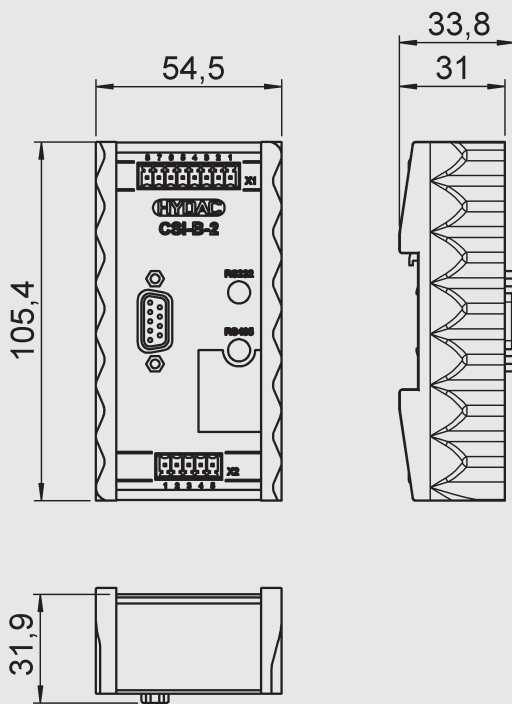
Technical data:

Input data	
HSI interface	HYDAC Sensor Interface for digital connection of SMART sensors ²⁾ - male connector X2
Output data	
Signal output	Switchable: RS 485 half duplex or RS 232 - male connector X1 (RS 485) - SUB-D 9 pole socket (RS 232)
Environmental conditions	
Operating temperature range	-25 .. +85 °C
Storage temperature range	-30 .. +85 °C
Relative humidity	0 .. 70 %, non-condensing
CE mark	EN 61000-6-1 / 2 / 3 / 4
Protection class acc. to DIN EN 60529	IP 40
Other data	
Supply voltage of the module	18 .. 35 V DC (male X1)
Current consumption (module + sensor)	30 mA .. 300 mA max. (depending on the supply voltage and the sensor connected)
Sensor supply	15 V DC ± 5 % / 300 mA max. at 23 °C (male X2)
Electrical connection	
Cross section of connection	Max. 1.5 mm ²
X1: module supply + RS 232 / RS 485	Plug-in terminal block, 8 pole RM 3.5
X2: sensor supply + HSI	Plug-in terminal block, 5 pole RM 3.5
SUB-D: RS 232	9 pole socket with securing screws
Selection of conversion mode	Selection of HSI - RS 232 or HSI - RS 485 via jumper (bridge): X1.3 - X1.4 open: HSI - RS 232 X1.3 - X1.4 closed: HSI - RS 485
Indication of active conversion mode	Green LED: HSI - RS 232 Yellow LED: HSI - RS 485
Dimensions and weight	
Housing	Approx. 55 x 106 x 34 mm Housing to be mounted on rails (35 mm) acc. to DIN EN 60715 TH 35 (formerly DIN EN 50022)
Weight	~ 140 g

Note: Reverse polarity protection of the supply voltage, overvoltage, override and short circuit protection are provided.

²⁾ SMART sensors (Condition Monitoring Sensors) are a generation of sensors from HYDAC which can provide a variety of different measured variables.

Dimensions:



Terminal assignment:

Terminal strip –X1

Pin	Signal
1	RS 485 (-)
2	RS 485 (+)
3	3 – 4 open: HSI to RS 232
4	3 – 4 closed: HSI to RS 485
5	RxD RS 232 (connected to Pin 3 SUB-D 9 pole)
6	TxD RS 232 (connected to Pin 2 SUB-D 9 pole)
7	0 V (connected to Pin 5 SUB-D 9 pole)
8	+U _B (18 .. 35 V DC) module supply

Terminal block –X2

Pin	Signal
1	+U _B (15 V DC) sensor supply
2	0 V
3	HSI signal
4	0 V
5	0 V

Model code:

CSI – B – 2 – 000

Modification number

000 = standard

Accessories:

Appropriate accessories, such as sensor lines for the electrical connection, can be found in the Accessories brochure.

Note:

The information in this brochure relates to the operating conditions and applications described.

For applications or operating conditions not described, please contact the relevant technical department.

Subject to technical modifications.

HYDAC ELECTRONIC GMBH
Hauptstr. 27, 66128 Saarbrücken
Germany
Telephone +49 (0)6897 509-01
Fax +49 (0)6897 509-1726
e-mail: electronic@hydac.com
Internet: www.hydac.com