



Condition Monitoring Interface Module CSI-B-2

Description:

The condition monitoring interface module CSI-B-2 is another element in the HYDAC Condition Monitoring concept which connects the sensor level with the interpretation level. It is an all-purpose electronic unit for converting 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 sensors directly. The long-term memory can also be read, as well as making adjustments and setting parameters directly on the connected sensor (the setting options depend on the particular sensor). The HSI signal can be converted either into a RS 232 or a 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*). The RS 485 interface and appropriate additional coupling modules can also be used to connect to higher-level control and/or bus systems.

Special features:

- 1 input channel for HYDAC SMART sensors
- Direct connection of the sensor via screw-type terminals
- Indication of the active interface via LED (RS 232 / RS 485)
- Very compact design
- Suitable for mounting on standard DIN rails
- Protection class IP 40

* RS 232-USB adapter is not supplied with the unit.

Technical specifications:

Input data	
HSI interface	HYDAC Sensor Interface for digital linking of SMART sensors** - Male X2
Output data	
Signal output	switchable: RS 485 half-duplex or RS 232 - Male X1 (RS 485) - SUB-D 9 pole female (RS 232)
Ambient 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 to DIN 40050	IP 40
Other data	
Supply voltage of the module	18 .. 35 V DC (male X1)
Current consumption (module + sensor)	30 mA to 300 mA max. (depending on the supply voltage and the connected sensor)
Sensor supply	15 V DC ± 5 % / 300 mA max. at 23 °C (male X2)
Electrical Installation	
Cross-section of connection	Max. 1.5 mm ²
X1 : Module supply + RS 232 / RS 485	Male terminal block, 8 pole RM 3.5
X2 : Sensor supply + HSI	Male terminal block, 5 pole RM 3.5
SUB-D: RS 232	9 pole female with thumbscrews
Conversion mode options	Option 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) to DIN EN 60715 TH 35 (formerly DIN EN 50022)
Weight	approx. 140 g

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

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

Model code:

CSI - B - 2 - 000

Modification number

000 = Standard

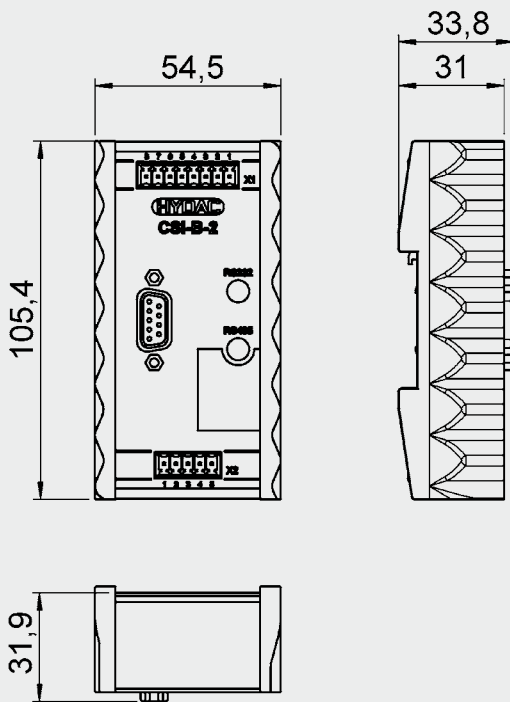
Note:

On units with a different modification number, please read the label or the technical amendment details supplied with the unit.

Accessories:

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

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 strip -X2

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

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.

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