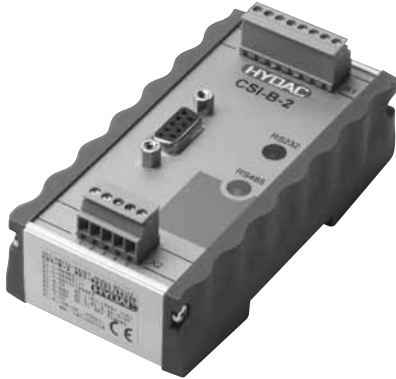


CSI-B-2 Series Condition Monitoring Interface Module



Applications



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 standardized PC signal.

Using the HYDAC "CMWIN" PC software, it is 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 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*).

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 Details

Input data	
HSI interface	HYDAC Sensor Interface for linking sensors digitally - male connection X2
Output data	
Signal output	Switchable: RS485 half duplex or RS232 - male connection X1 - SUB-D 9 pole connection (RS232)
Operating conditions	
Operating temperature range	-13° to 185°F (-25° to 85°C)
Storage temperature range	-22° to 185°F (-30° to 85°C)
Relative humidity	0 to 70%, non-condensing
CE mark	EN 61000-6-1, EN 61000-6-2 EN 61000-6-3, EN 61000-6-4
Protection class to DIN 40050	IP 40
Other data	
Supply voltage	18 to 35 V DC (male connection X1)
Current capacity (module + sensor)	30 mA to 400 mA max. (depending on the supply voltage and the sensor connection)
Sensor power supply	15 V DC ±5% / 300 mA max. at 75°F (23°C) (male connection X2)
Electrical connection	Max. cross section of connection 1.5mm ²
X1: module supply + RS232 / RS485 X2: sensor supply + HSI	Male terminal block, 8 pole RM 3.5 Male terminal block, 5 pole RM 3.5
SUB-D: RS232	9 pole connection with securing screws
Reverse polarity protection of the supply voltage, excess voltage, override and short circuit protection	Standard
Option of conversion mode	Option of HSI - RS232 or HSI - RS485 via jumper (bridge): X1.3 - X1.4 open: HSI - RS232 X1.3 - X1.4 closed: HSI - RS485
Indication of active conversion mode	Green LED: HSI - RS232 Yellow LED: HSI - RS485
Housing	Dimensions: 2.2 x 4.1 x 1.2 in (55 x 105 x 31mm) Housing to be mounted on rails (35mm) to DIN EN 60715 TH 35 (formerly DIN EN 50022)
Weight	approx. 140 g

Approvals



CE mark is a mandatory conformity mark on many products placed on the single market in the European Economic Area

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.

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 to 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

Dimensions

