

Condition Sensor Interface CSI-B-2

Description

The condition monitoring interface module CSI-B-2 is a further element in the HYDAC Condition Monitoring concept, connecting the sensor level with the interpretation level. It is an all-purpose electronic instrument for converting the HSI signal from HYDAC sensors into a standardised PC signal. Using the HYDAC "FluMoS" PC software, it is therefore possible to read the data and measured values of the connected sensors immediately. The long-term memory can also be read, as well as adjustments made and parameters set on the connected sensors (the setting options are sensor-dependent). The HSI signal can be converted either into a RS 232 or a RS 485 signal. The RS 232 port and possibly an additional standard RS 232/USB adapter can be used to connect the CSI-B-2 to any PC. By using the RS 485 port and an appropriate additional coupling module, connection to higher-level control and/or bus systems is also possible.

Special features

- Input channels for HYDAC sensors
- Direct connection of the sensors via screw terminals
- Indication of the active interface via LED (RS232 / RS485)
- Very compact design
- Suitable for mounting on DIN rails
- Protection class IP 40

Technical specifications

Input data	
HSI interface	HYDAC sensor interface for digital coupling of sensors (HSI) to male connection 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 sensor connected)
Sensor supply	15 V DC ± 5 % / 300 mA max. at 23 °C (male X2)
Electrical connection	
Cross-section of connection	max. 1.5mm ²
X1 : module supply + RS232 / RS485	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 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 dimensions	≈ 55 x 106 x 34 mm
Housing	Housing to be mounted on rails (35mm) to DIN EN 60715 TH 35 (formerly DIN EN 50022)
Weight	≈ 140 g

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

Model code

CSI - B - 2 - 000

Product series

CSI = ConditionSensor Interface

Housing

B = DIN rail housing

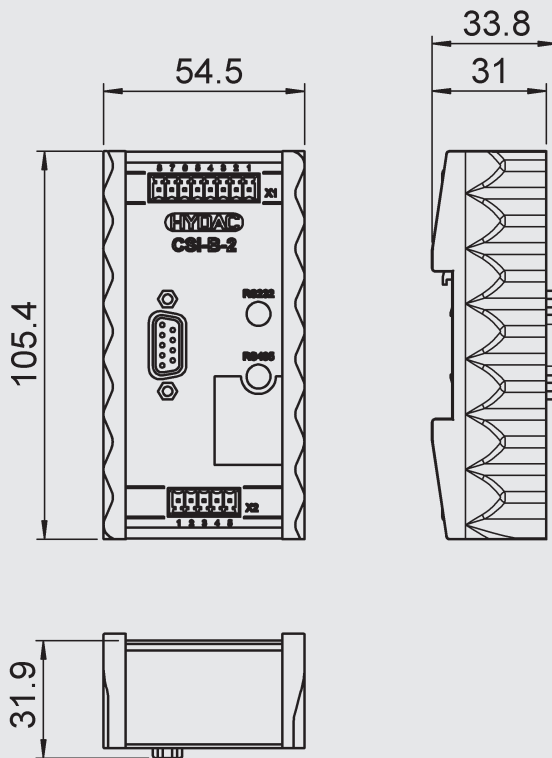
Output type

2 = HSI → RS 232 / RS 485

Customer modification

000 = Standard

Dimensions



Terminal assignment

Terminal block –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

CSI-B-2 Kit (3409462) consisting of:

1 x	CSI-B-2
3 x	Connecting cable ZBE 08S-05
1 x	Connecting cable ZBE 42S-05
1 x	Y Adapter ZBE 41
1 x	RS232 cable / USB adapter
1 x	CD "FluMoS Light"

CSI-B-2 Kit, items supplied



Note

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

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

Subject to technical modifications.

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