

AHD-UIC

Protocol converter Modbus RTU



Microprocessor-controlled device in a compact design

Two RS485 interfaces with Modbus RTU communication protocol

CAN bus output

Customized configuration

AHD-UIC is a protocol converter capturing data from external systems with Modbus RTU communication protocol.

It is a microprocessor-controlled device to be fitted into a housing (cabinet, desk, ...). Two galvanically isolated RS485 interfaces can be adapted over a pluggable terminal block and forwarded to ship alarm displays via CAN bus output.

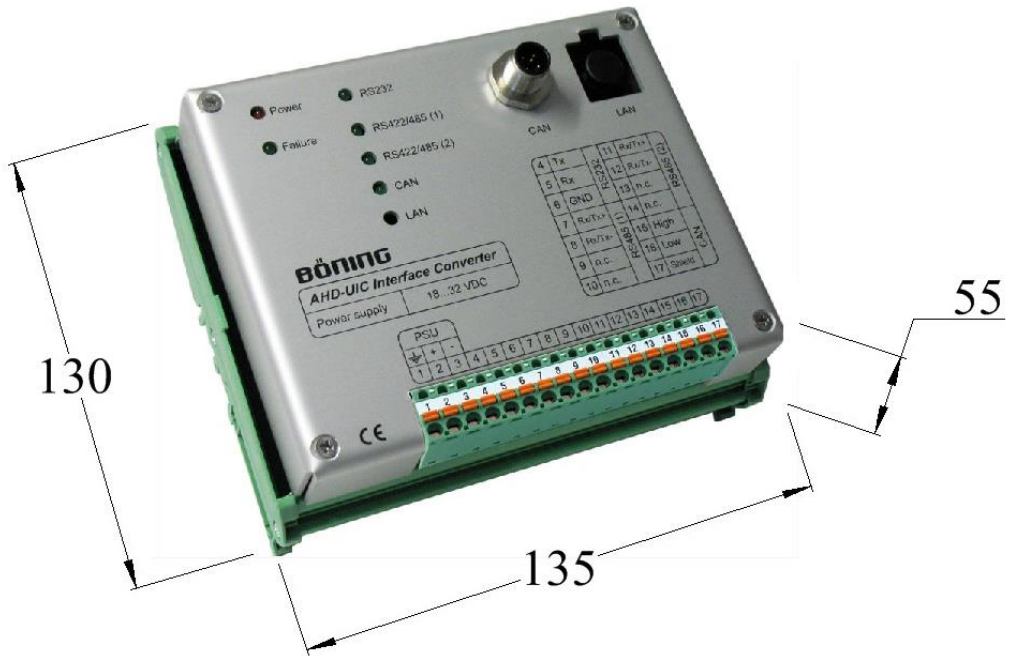
AHD-UIC is a part of the Böning product family and therefore allows individual customized configuration with a software configuration tool. Data rates of up to 38.400 Baud are supported. Up to 100 Modbus data packets are cyclically processed. In doing so, the AHD-UIC acts as a bus master.

The device offers automatic failure detection. Both analog and digital values can be queried. AHD-UIC takes over complete data processing. Conversion tables are storable (i.e. from non-metric to metric). Input data can be configured as a display or alarm value; masking on binary level is possible.

A combination of two devices (master / slave) can be used to set up a redundant system.

Other variants of this device are available to support further communication protocols.

Dimensions



Modbus - CAN					
4	Tx	RS232	11	Rx/Tx+	RS485 (2)
5	Rx		12	Rx/Tx-	
6	GND		13	n.c.	
7	Rx/Tx+	RS485 (1)	14	n.c.	CAN
8	Rx/Tx-		15	High	
9	n.c.		16	Low	
10	n.c.		17	Shield	

Technical Data

Power supply	18...32 V DC
Current consumption	Ca. 400 mA (24 V DC)
Operating temperature	-25°C...70°C
Storage temperature	-30°C...85°C
Weight	Ca. 2 kg
Degree of protection	IP 20
Dimensions W x H x D	135 mm x 130 mm x 55 mm
Input interfaces	2 x RS485 – Modbus RTU
Output	1 x CAN
Assembly	On rail TS 32 and TS 35
Approvals	DNV, CRS, LR, RS
Required distance to compass	Standard magnetic compass: 0.50 m Steering magnetic compass: 0.40 m