DP-Modbus Gateway

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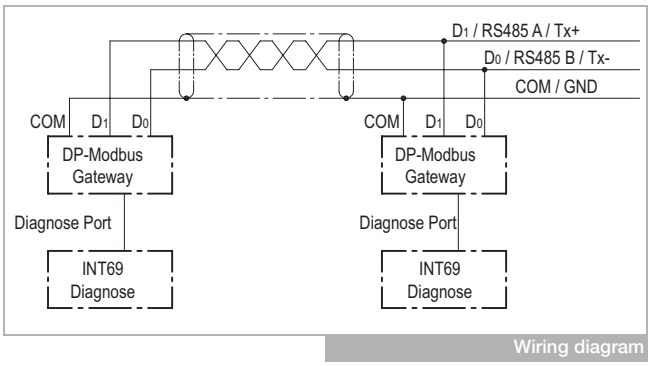
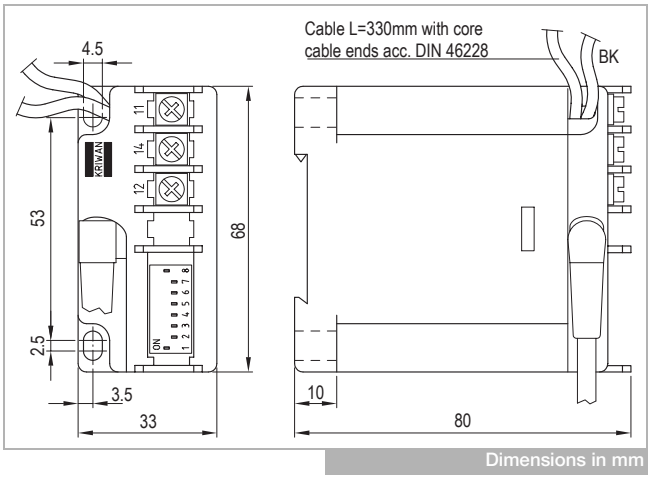


Wiring diagram



Dimensions in mm

⚠ The mounting, maintenance and operation are to be carried out by an electrician. The valid European and national standards for connecting electrical equipment and cooling installations have to be observed. Connected sensors and connection lines that extend from the terminal box have to feature at least a basic insulation.

Order data

DP-Modbus Gateway	**22 S 367**
DP-cable, 30cm	**FK02098062**
DP-cable, 100cm	**FK02098063**

Application

Every type of KRIWAN diagnosis device can be integrated into communication systems with the DP-Modbus Gateway. Using the standard Modbus RTU protocol, the diagnosis data can be read into system controllers.

Functional description

The DP Modbus Gateway receives all reports from a KRIWAN diagnosis device and saves them. With the correspondingparameters, the diagnosis reports can be called up via the Modbus. Aseparate DP Modbus Gateway is required for each KRIWAN diagnosisdevice. For details on the Modbus specifications, see the "Modbusapplication protocol specification" from Modbus-IDA.

Application level

The KRIWAN DP Modbus Gateway supports the following Modbus function code:

Function code	Function Name	Registers	Access
0x04	Read Input Register	Input registers	Read only

A unique address in binary code has to be specified for the DP-Modbus Gateway at the bus. If the LED light is flashing red, data transmissions are being received from the diagnosis device. If the LED light is flashing green, valid data transmissions for the set address are being received via the Modbus. The following settings become active when restarted (power interruption >15s).

Address	DIP 1	DIP 2	DIP 3	DIP 4	DIP 5
1	On	Off	Off	Off	Off
2	Off	On	Off	Off	Off
3	On	On	Off	Off	Off
4	Off	Off	On	Off	Off
5	...				

DIP	Function	On	OFF (Default)
6	Baud rate	9600	19200
7	Parity	Even	No parity
8	Load resistance 150 ohm	activated	deactivated

The Modbus interface is electrically isolated. Two shielded, twisted pair cables must be used.

Recommended cables: Belden 9841,
Lapp Kabel Li2YCY (TP) 1x2x0,25, UNITRONIC® BUS LD 1x2x0,22

Technical specifications

Supply voltage - Dual voltage	 AC 50/60Hz 115-230V ±10% 1VA
Permitted ambient temperature	-30...+70°C
Record	Modbus RTU (TwoWire / W2-Modbus)
Modbus interface	RS485
Address range	1-31
Baud rate	19200 or 9600
Parity	even or no parity
Interface	Diagnose Port (DP)
Protection class acc. to EN 60529	IP00
Connection type	Screw type terminal
Housing material	PA glass-fibre-reinforced
Mounting	Screw mounted or snapped onto 35mm standard rail according to EN 60715
Dimensions [mm]	68x33x80 (LxWxH)
Weight	Approx. 100g
Check base	EN 61000-6-2; EN 61000-6-3 EN 61010-1 Overvoltage category II Pollution level 2

Technical changes reserved