

DL-485MBP

MODBUS-PLUS-Fiber Optic System



System description

The DL-485MBP is a fiber optic system for a Modbus-Plus interface.

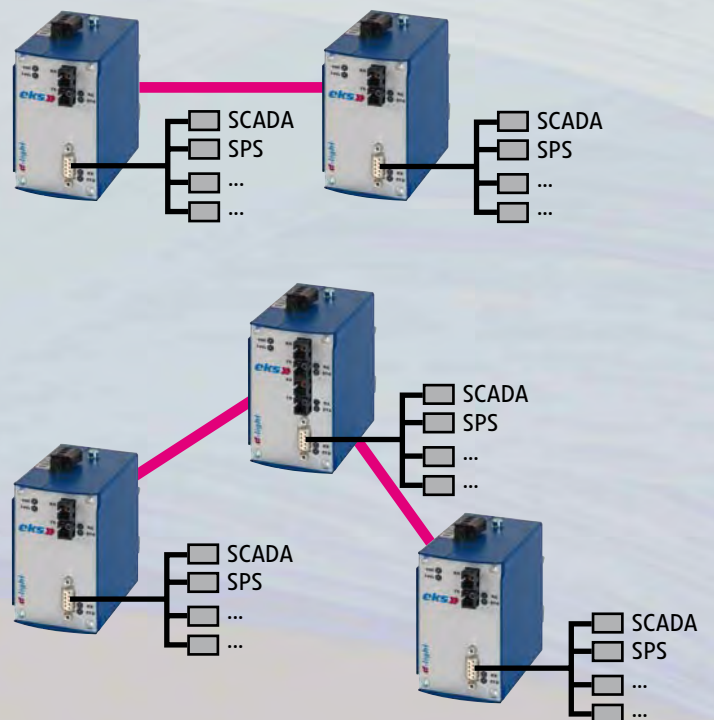
With the help of this innovative system optical bus structures, star structures, tree structures as well as mixed structures are possible.

Important performance features of the transfer with POF, HCS, multimode or singlemode fiber optic are the electromagnetic ruggedness, the potential separation of transmitter and receiver, as well as ranges up to 40km between two fiber optic systems. LED's and potential-free contacts (optional) of a fault detector relay are able to signal defective states.

In addition to ST and SC the optical connection type E2000 is also available. All systems can communicate via two as well as one fiber with the help of the BIDI-technology with SC port.

Please inquire your requested type if it is not listed in the adjoining chart.

Application



Ordering Information



System	6-P-ST	6-P-SM	13-M-ST	13-M-SC	13-M-SC-BIDI	13-S-ST-L	13-S-SC-L	13-S-SC-BIDI
DL-485MBP/								
Ordering-No. (1 FX)	0 100 06401	0 100 06402	0 100 06421	0 100 06423	0 100 06423-BIDI	0 100 06431	0 100 06433	0 100 06433-BIDI
DL-485MBP/	2x6-P-ST	2x6-P-SM	2x13-M-ST	2x13-M-SC	2x13-M-SC-BIDI	2x13-S-ST-L	2x13-S-SC-L	2x13-S-SC-BIDI
Ordering-No. (2 FX)	0 100 06451	0 100 06452	0 100 06471	0 100 06243	0 100 06473-BIDI	0 100 06481	0 100 06483	0 100 06483-BIDI
Fiber Connector	ST	SMA	ST	SC	SC	ST	SC	SC

Fiber	POF 980/1000 μm	Multi-Mode 62,5 (50) /125 μm	Single-Mode 9/125 μm
Optical Budget	12 dB	13dB	17 dB
Max. Distance	50 m (180 dB/km)	5 km (1 dB/km)	15 km (0,4 dB/km)
Wavelength	650 nm	1300 nm	1300/1500 nm

Interface	1 MBit/s
Data Rate max	1 MBit/s
Operation Mode	half duplex
Termination	no termination according to MODBUS-PLUS specification
Max. Distance	50m distances according to MODBUS-PLUS specification
Signal Delay	RS485 ↔ LWL : 400ns Tx ↔ Rx : 500ns
Connector	9 pol. SUB-D female / 6 pol. screw terminal block

Power Supply	Power Supply (green) / Data Receive (yellow) / Status (red)
Status - LED's	Power Supply (green) / Data Receive (yellow) / Status (red)
Operating Voltage	24 VDC (10 VDC .. 30 VDC), other voltages on request
Current Consumption	200 mA (1 FX) / 250mA (2 FX)
Potential Separation	500 VDC (24 VDC → RS485MBP)

Environmental	-10°C - +55°C
Operating Temperature	-10°C - +55°C
Storage Temperature	-40°C - +85°C
EMC	EN61000-6-2 / EN55022 Class B +A1 + A2

Mechanical	500 g
Weight	500 g
Housing	Stainless steel, powder-coated
Dimensions (H x B x T)	115 mm x 61 mm x 113 mm

