

# DM4 – RS485 DATA



The OPTRAL Series DM4 allows the transmission and reception of RS485 data signals over multimode optical fibre. Two transceivers and two optical fibres form the basic system. The Series DM4 includes models which work both at 2 wires (Half-Duplex) and 4 wires (Full-Duplex), with data rate up to 115 Kbs.

All the models comply with the requirements according to the Electromagnetic Compatibility and Low Tension Standards (CE Marking).

## **FEATURES**

- Multimode Optical Fibre
- Wavelength 850 nm and 1300 nm
- Modular Units and Rack Cards
- Configurable for short and long distances
- Optical connectors: ST <sup>(1)</sup>

<sup>(1)</sup> For other optical connectors consult us.

## **POWER / TEMPERATURE / SIZE**

- Temperature = 0° ÷ +50°C
- Humidity = 10% ÷ 90%
- 12 Vdc / 200 mA
- Modular Units
  - Type S = 105 x 95 x 32 mm
- Rack Cards = 1 Slot Rack

## **RS485 DATA**

- Data rate ≤ 115 Kbs
- Bit Error Rate ≤ 10<sup>-9</sup>
- Operating mode = Asynchronous / Half-Full Duplex
- Configurations = 2 or 4 Wires
- RS485 Connector = Screw Terminal CI (6 pin)

## **ACCESORIES (NOT INCLUDED)**

- Modular Units (Power Supplies)
  - Type S = Model PS150
- Rack Cards
  - Card Cage 3U (Rack 19") = PR100

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### AVAILABLE MODELS

PART NUMBER	DESCRIPTION	FORMAT	NUMBER FIBRES	MAXIMUM ATTENUATION <sup>(2)</sup>	WAVELENGTH
DM401-XB1	Transceiver RS485 Modular 4 Wires	Type S	2	16 dB	850 nm
DM401-XR1	Transceiver RS485 Rack 4 Wires	Rack			
DM401-XB2	Transceiver RS485 Modular 4 Wires	Type S			1300 nm
DM401-XR2	Transceiver RS485 Rack 4 Wires	Rack			
DM402-XB1	Transceiver RS485 Modular 2 Wires	Type S	2	16 dB	850 nm
DM402-XR1	Transceiver RS485 Rack 2 Wires	Rack			
DM402-XB2	Transceiver RS485 Modular 2 Wires	Type S			1300 nm
DM402-XR2	Transceiver RS485 Rack 2 Wires	Rack			

<sup>(2)</sup> Maximum attenuation at 62.5/125. For 50/125 reduce optical budget by 3dB.  
Caja S = 105 x 95 x 32 mm

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