

## DS5 – DATA RS232, RS422, RS485



The OPTRAL Series DS5 allows the transmission and reception of RS232, RS422 and RS485 data signals over singlemode optical fibre. The basic system consists of two transceiver and two fibre optics for each communication channel with speeds up to 115 Kbs. The communication protocol: RS232, RS422, RS485-2H (2 Wires Half Duplex) and RS485 4H (4 Wires Full Duplex), can be selected by a switch.

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

### **FEATURES**

- Sinlemode Optical Fibre
- Wavelength 1310 nm and 1550 nm
- Modular Units, Rack Cards and DIN rail
- Configurable for short and long distances
- Optical connectors: FC <sup>(1)</sup>

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

### **OPERATION / TEMPERATURE / SIZE**

- Temperature = 0° ÷ +50°C
- Humidity = 10% ÷ 90%
- Power:
  - 12 Vdc / 250 mA for Rack Cards
  - 12 to 24Vdc for Modular Units and DIN
- Size
  - DIN rail = 45 x 70 x 121 mm
  - Type S = 105 x 95 x 32 mm
  - Type Rack = 1 Slot Rack

### **COMMUNICATION**

- Data rate ≤ 115 Kbs
- Bit Error Rate ≤ 10<sup>-9</sup>
- Operating mode = Asynchronous / Half - Full Duplex
- Selection of communication: *SWITCH*
- Data connector = Screw Terminal CI (7 pin)

### **ACCESORIES (NOT INCLUDED)**

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

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### AVAILABLE MODELS

PART NUMBER	DESCRIPTION	FORMAT	NUMBER FIBRES	MAXIMUM ATTENUATION (2)	WAVELENGTH
DS501-XD3	Transceiver RS232, RS422 and RS485	DIN rail	2	25 dB	1310 nm
DS501-XB3	Transceiver RS232, RS422 and RS485	Type S			
DS501-XR3	Transceiver RS232, RS422 and RS485	Rack			
DS501-XD4	Transceiver RS232, RS422 and RS485	DIN rail			1550 nm
DS501-XB4	Transceiver RS232, RS422 and RS485	Type S			
DS501-XR4	Transceiver RS232, RS422 and RS485	Rack			

DIN rail = 45 x 70 x 121 mm / Type S = 105 x 95 x 32 mm

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