

## VM6 - VIDEO + RS485



The OPTRAL Series VM6 allows the transmission of one standard video signal and one RS485 data channel (2 or 4 Wires) over multimode optical fibre. One transmitter and one receiver using multimode fibres form the basic system. The Series VM6 includes models to transmit and receive video and data signals over one single fibre.

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>
- (1) For other optical connectors, consult us.

### **POWER/TEMPERATURE/SIZE**

- Temperature = 0° ÷ +50°C
- Humidity = 10% ÷ 90%
- 12 Vdc / 400 mA
- Modular Units:
  - Type M = 179 x 127 x 32 mm
- Rack Cards = 1 Slot Rack

### **VIDEO SIGNAL**

- I/O Impedance = 75 Ω
- Bandwidth = 10 MHz
- Differential Gain < 2%
- Differential Phase < 2°
- I/O Video connector = BNC

### **RS485 DATA**

- Data Rate ≤ 57600 bps
- Bit Error Rate ≤ 10<sup>-9</sup>
- Operating mode = Asynchronous / Half-Full Duplex
- Configurations = 2 or 4 Wires
- I/O Connector = Screw Terminal

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

- Modular Units (Power Supplies)
  - Type M = Model PS155
- 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
VM601-TB1	1 Tx Video + Tx/Rx RS485 Modular 4 Wires	Type M	2	14 dB	850 nm
VM601-TR1	1 Tx Video + Tx/Rx RS485 Rack 4 Wires	Rack			
VM601-RB1	1 Rx Video + Tx/Rx RS485 Modular 4 Wires	Type M			
VM601-RR1	1 Rx Video + Tx/Rx RS485 Rack 4 Wires	Rack			
VM601-TB2	1 Tx Video + Tx/Rx RS485 Modular 4 Wires	Type M	2	14 dB	1300 nm
VM601-TR2	1 Tx Video + Tx/Rx RS485 Rack 4 Wires	Rack			
VM601-RB2	1 Rx Video + Tx/Rx RS485 Modular 4 Wires	Type M			
VM601-RR2	1 Rx Video + Tx/Rx RS485 Rack 4 Wires	Rack			
VM601-TB5	1 Tx Video + Tx/Rx RS485 Modular 4 Wires	Type M	1	12 dB	850/1300 nm
VM601-TR5	1 Tx Video + Tx/Rx RS485 Rack 4 Wires	Rack			
VM601-RB5	1 Rx Video + Tx/Rx RS485 Modular 4 Wires	Type M			
VM601-RR5	1 Rx Video + Tx/Rx RS485 Rack 4 Wires	Rack			
VM602-TB1	1 Tx Video + Tx/Rx RS485 Modular 2 Wires	Type M	2	14 dB	850 nm
VM602-TR1	1 Tx Video + Tx/Rx RS485 Rack 2 Wires	Rack			
VM602-RB1	1 Rx Video + Tx/Rx RS485 Modular 2 Wires	Type M			
VM602-RR1	1 Rx Video + Tx/Rx RS485 Rack 2 Wires	Rack			
VM602-TB2	1 Tx Video + Tx/Rx RS485 Modular 2 Wires	Type M	2	14 dB	1300 nm
VM602-TR2	1 Tx Video + Tx/Rx RS485 Rack 2 Wires	Rack			
VM602-RB2	1 Rx Video + Tx/Rx RS485 Modular 2 Wires	Type M			
VM602-RR2	1 Rx Video + Tx/Rx RS485 Rack 2 Wires	Rack			
VM602-TB5	1 Tx Video + Tx/Rx RS485 Modular 2 Wires	Type M	1	12 dB	850/1300 nm
VM602-TR5	1 Tx Video + Tx/Rx RS485 Rack 2 Wires	Rack			
VM602-RB5	1 Rx Video + Tx/Rx RS485 Modular 2 Wires	Type M			
VM602-RR5	1 Rx Video + Tx/Rx RS485 Rack 2 Wires	Rack			

<sup>(2)</sup> Maximum attenuation at 62.5/125. For 50/125 reduce optical budget by 3dB.  
Type M = 179 x 127 x 32 mm

