

VM7 – VIDEO + RS232/RS422/RS485



The OPTRAL Series VM7 allows the transmission of one standard video signal and one RS232, RS422 or RS485 (2 or 4 wires) data channel over multimode optical fibre. One transmitter and one receiver using multimode fibres conform the basic system. The Series VM7 include specific models to transmit and receive video and data signals over one single fibre.

The devices incorporate Automatic Gain Control (AGC) and the communication protocol is selectable using one switch.

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

POWER/TEMPERATURE/SIZE

- Temperature = 0° ÷ +50°C
- Humidity = 10% ÷ 90%
- 12 Vdc / 250 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 ≤ 10⁻⁹
- Operating mode = Asynchronous / Half-Full Duplex
- I/O Connector = Screw Terminal

ACCESORIES (NOT INCLUDED)

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

•••••

VM7 - VIDEO + RS232/RS422/RS485

AVAILABLE MODELS

PART NUMBER	DESCRIPTION	FORMAT	NUMBER FIBRES	MAXIMUM ATTENUATION ⁽²⁾	WAVELENGTH
VM701-TB1	1 Tx Video + Tx/Rx RS232/RS422/RS485	Type M	2	14 dB	850 nm
VM701-TR1	1 Tx Video + Tx/Rx RS232/RS422/RS485	Rack			
VM701-RB1	1 Rx Video + Tx/Rx RS232/RS422/RS485	Type M			
VM701-RR1	1 Rx Video + Tx/Rx RS232/RS422/RS485	Rack			
VM701-TB2	1 Tx Video + Tx/Rx RS232/RS422/RS485	Type M	2	14 dB	1300 nm
VM701-TR2	1 Tx Video + Tx/Rx RS232/RS422/RS485	Rack			
VM701-RB2	1 Rx Video + Tx/Rx RS232/RS422/RS485	Type M			
VM701-RR2	1 Rx Video + Tx/Rx RS232/RS422/RS485	Rack			
VM701-TB5	1 Tx Video + Tx/Rx RS232/RS422/RS485	Type M	1	12 dB	850/1300 nm
VM701-TR5	1 Tx Video + Tx/Rx RS232/RS422/RS485	Rack			
VM701-RB5	1 Rx Video + Tx/Rx RS232/RS422/RS485	Type M			
VM701-RR5	1 Rx Video + Tx/Rx RS232/RS422/RS485	Rack			

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

•••••