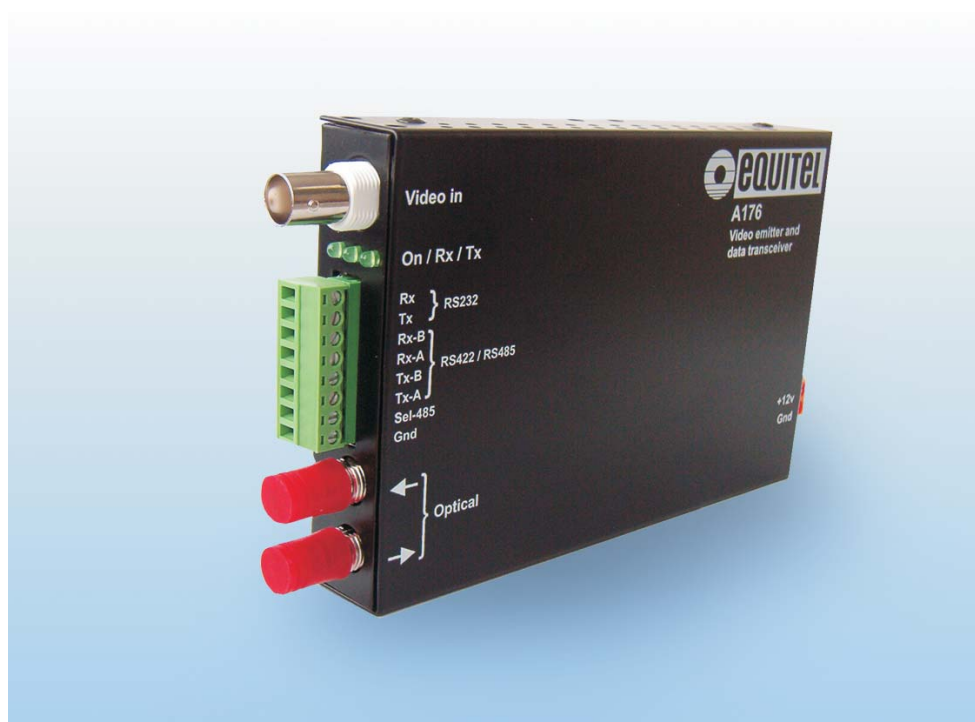


Fiber optic single channel CCTV transmission



Analogue video optical emitter and asynchronous data transceiver, A176 model

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06.A176.1.0S

OPTICAL PARAMETERS

Optical emitter	VCSEL
Optical receiver	PIN
Output / Input wavelength (see note 1)	850 nm.
Type of fibre	2 x Multimode (62,5/125 µm)
Average optical power (see note 2)	≥ 0 dBm
Receiver sensitivity (see notes 2 and 3)	≤ -30 dBm

VIDEO ELECTRICAL PARAMETERS

Video specification	PAL / NTSC
Input voltage	1 Vpp (± 3 dB)
Input impedance (see note 1)	75 Ω (high impedance optional)
Peak to peak differential gain (see notes 1 and 2)	< 3,5 %
Peak to peak differential phase (see notes 1 and 2)	< 3,5 °
Bandwidth (see note 2)	≥ 5,8 MHz
Signal to noise ratio (weighed) (see notes 1 and 2)	> 60 dB

DATA ELECTRICAL PARAMETERS

Electrical interface (user configurable)	RS-232, RS-422, RS-485 (2 or 4 w)
Maximum binary rate	> 128 kbit/s (RS-232/422), > 19,2 kbit/s (RS-485)
Operation mode	Full-duplex

POWER PARAMETERS

Power requirements	12 Vdc
Consumption (see note 1)	< 3 W

MECHANICAL PARAMETERS

Format	Stand-alone / DIN rail / module for 19" housing
Dimensions	145 x 95 x 25 mm. (without connectors)
Optical connector	ST
Data connector	8 poles screw-in terminal
Video connector	BNC

ENVIRONMENTAL CONDITIONS

Operating temperature range (functioning)	-40 °C to +74 °C
Humidity range	0 to 95% without condensation

INDICATORS (see note 4)

Unit in operation	Green	ON
Data transmission / reception	2 x Green	Tx, Rx

Note 1.- Typical values as a production average

Note 2.- Actual values are given in the test sheet. These values are measured according to the test procedure for this device

Note 3.- Guaranteed value for a BER < 10⁻⁹ in all the operating range

Note 4.- LEDS on the front side.

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