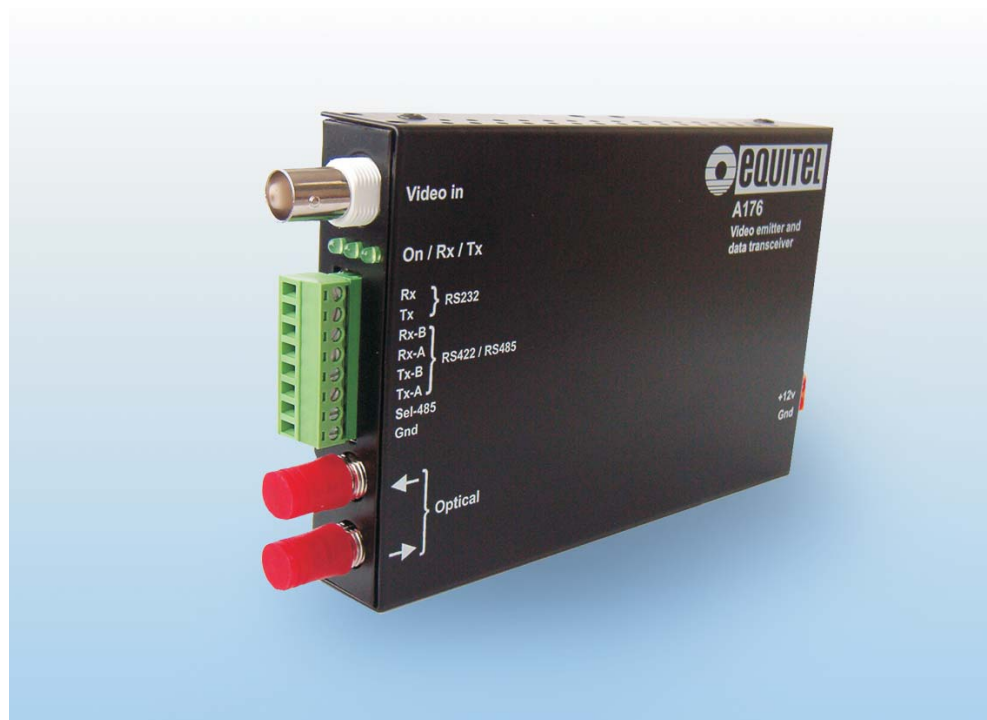


## Fiber optic single channel CCTV transmission



**Analogue video optical emitter and asynchronous data transceiver, A176 model**

# Analogue video optical emitter and asynchronous data transceiver, A176 model

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 $\mu$ m)
Average optical power (see note 2)	$\geq 0$ dBm
Receiver sensitivity (see notes 2 and 3)	$\leq -30$ dBm

## VIDEO ELECTRICAL PARAMETERS

Video specification	PAL / NTSC
Input voltage	1 Vpp ( $\pm 3$ dB)
Input impedance (see note 1)	75 $\Omega$ (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)	$\geq 5,8$ 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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