

FOP 100-200 Fibre Optic Interface



Features

- Compact, module design
- Audio and signalling over one or two fibres
- Cost effective
- Adjustment-free operation and installation

Fibre Optic Interface

Description

The Vodec FOP 100/200 series offers a range of fibre optic transceivers with four data channels, two audio channels and two contact closures, all full-duplex, providing a solution for inter-sector PAGA communications.

The two audio channels offer broadcast quality, while the two contact closure channels have potential Volt free output which can be configured.

Each data channel is fully independent and offers transmission speeds from DC to 64 kb/s.

Available data interfaces are RS-232, RS-422, 4- or 2- wire RS-485, TTY Manchester and Bi=Phase. Data channels are in FOP 100V1A applications.

FOP 100 The FOP series transceivers are available in one or two fibre versions for both single mode and multimode applications.

➔ Technical Data

■ Data

Number of channels	4 (full duplex)
Data interfaces	2x RS-232 2x RS-422/485
Data rate per channel	DC to 64 kbit/s (512 ksamples/sec)
Connector type	RJ 45

■ Audio

Number of channels	2 (full duplex)
Bandwidth	40 Hz to 15 kHz
Input/output level	0dBV (+6dBV max)
Connector type	RJ45

■ Optical 1240 TRX

Output wavelength	1310
Fibre type	Single mode
Budget	22
Connector type	FC

■ Management

LED status indicators

DC	Power on indicator (green)
SYNC	Full duplex link (green), local (red) or remote sync error (yellow)

Network management SNM Compatible

■ Contact closure

Number of channels	2 (full duplex)
Input	+5 V pull up 10 K Ω
Activation threshold	0.75 V
Output (potential free)	Normally open
Switch rating	2 A at 30 V DC

■ Environmental

Operating temperature range	- 30 °C to +70 °C
Humidity	< 95 % (no condensation)
Power supply	DC 12 V derived from host Optical 1210 TRA/TRB

■ Optical 1210 TRA/TRB

Output wavelength	850/1300
Fibre type	Multimode
Budget	19 (15)
Connector type	ST

■ Optical 1250 TRA/TRB

Output wavelength	1310/1550 nm
Fibre type	Single mode
Budget	22
Connector type	FC (others optional)
Dimensions	128 x 35 x 190 nm
Weight	450 g

