

## TV+IF SAT optical receiver

Especially designed for the delivery of DTT and satellite digital signals over large collective installations.



TV+IF Output



Optical signal output



Variable attenuator

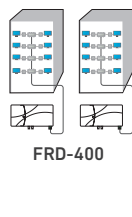
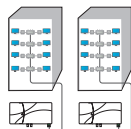
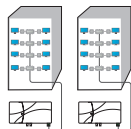
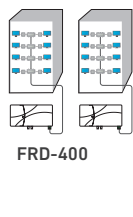
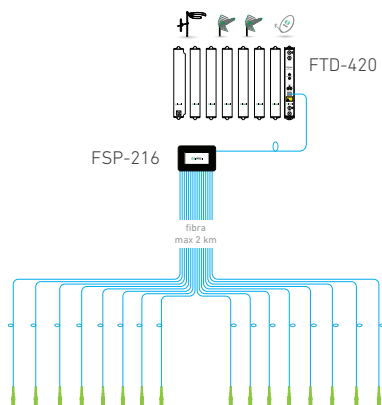
MODELO		FRD-400	
REF.		4914	
Optical input power	dBm	-12 ... +1 <sup>(1)</sup>	
Frequency bands RF output direct path	MHz	45 – 862 (TV) and 950 – 2150 (IF)	
Optical section			
Optical wavelength	nm	1290 – 1600	
Optical output return loss	dB/Hz	> 50	
Optical output return loss		SC/APC 8°	
RF section			
RF flatness	dB	±1,5 (TV), ±2 (IF)	
Receiver output level for 20 digital channels. For 76 dBμV input to the transmitter and -12 dBm input to the receiver	dBμV	104	
Receiver output level for 20 analogue channels. For 72 dBμV input to the transmitter and -4 dBm input to the receiver	dBμV	100	
CNR (*)	Analogue TV (ΔB = 5 MHz)	dB	> 52
	IF (ΔB = 36 MHz)		> 36
CTB (*)	dB	> 60	
CSO (*)	dB	> 60	
Variable attenuator for TV	dB	0 – 15	
Range of slope control for TV	dB	0 – 15	
IF Variable attenuator	dB	0 – 15	
IF slope control	dB	0 – 10	
Output return loss	dB	>12 (TV), 10 (IF)	
Output test	dB	-30	
General			
Type of output and test connectors		F	
Mains voltage	Vac	230 – 240	
Consumption	W	15	
Dimensions	mm	222 x 140 x 44	

- 1 optical input (1290-1600 nm)
- 1 RF output (45-2150 MHz).
- Connection of singlemode type optical fibre.
- Especially designed for the delivery of terrestrial and satellite signals (analogue and digital) over large collective installations.
- Mains powered, 50/60 Hz. Electrical safety protection level: Class II. Insertable power cord with bipolar plug.
- Injection-moulded zinc alloy housings. Wall-fixing. Indoor mounting.

(\*) Measured in a typical 1310 nm transmission system with FTD-420 laser emitter

(1) Values for digital channels

Installation example



**ADJUSTMENT OF THE RF OUTPUT SIGNAL**  
Connect a signal analyser to the output test port (-30 dB). Operating on the attenuation and equalization potentiometers with the shaft supplied, adjust the TV and IF signal levels in accordance with the engineering calculations.

