



IKUSI
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smartexperience

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

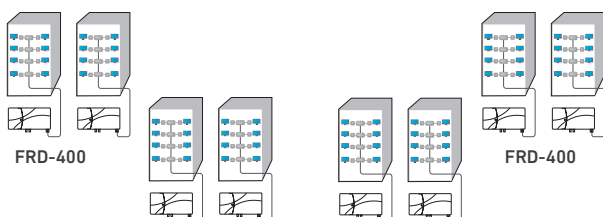
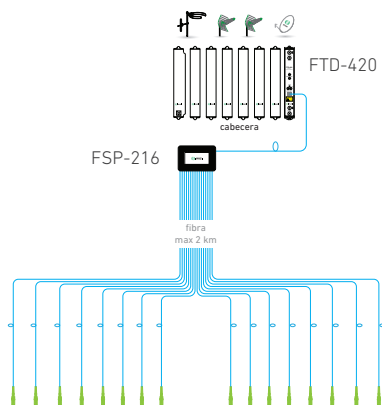
FRD-400

Technical specifications

MODEL		FRD-400	
REF.		4914	
Optical window	dBm	-4 ... +1	
Forward RF output frequency	MHz	45-862 (TV) and 950-2150 (IF)	
Optical section			
Optical wavelength	nm	1290 - 1600	
Optical output return loss	dB	> 50	
Optical input connector type		SC / APC	
RF section			
RF flatness	dB	±1.5 (TV) ,, ±2 (IF)	
RF output level	Analogue TV	dBμV	119 ¹ / 104 ²
	IF		120 ³ / 105 ⁴
CNR	Analogue TV	dB	52,5 ⁵ / 50 ⁶
	IF		36 ⁷ / 33,5 ⁸
CTB	dB	58 ⁵ / 60 ⁶	
CSO	dB	59 ⁵ / 63 ⁶	
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			
Mains voltage	VAC	230 - 240	
Consumption	W	15	
Dimensions	mm	222 x 140 x 44	

- 1- 60dB IMD3 (DIN 45004B)
- 2- With 42 Cenelec carriers and 4% OMI
- 3- 35dB IMD3 (EN 50083-3)
- 4- 1.6% OMI5
- 5- For maximum optical input power and note2-marked RF output level.
- 6- For minimum optical input power and note2-marked RF output level.
- 7- For maximum optical input power and note4-marked RF output level.
- 8- For minimum optical input power and note4-marked RF output level.

Installation example



- 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 (analog 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.

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.

