

# 912 TV-SAT AND MODULATOR EQUIPMENT

## TRANSMODULATOR QPSK-PAL MULTISTANDARD



Code : **9120129**

Model : **TP-559**

### Description

Receiver of free-to-air digital satellite TV programs, or VB-S to PAL transmodulator, with a built-in modulator. Each module selects a TV program from a DVB-S digital transponder and converts it into a terrestrial band analogue TV channel. Multistandard modulator with analogue stereo audio (ITU-BS 707-4) or mono. Standards: B/G stereo, D/K stereo, and I mono.

### Applications

Digital SMATV installations where it is necessary to distribute digital channels which have been converted to analogue channels. Compatible with all the MATV installations as the channels are distributed in terrestrial band. It is not necessary to install individual receivers for each TV.

### Characteristics

Very robust DVB-S decoder with an automatic reset system in the event of the detection of errors in order to reduce maintenance of the installation. Automatic detection of the audio mode. Decoding of mono, stereo and dual audio. Reinsertion of digital teletext in the analogue channel. Modulator in VSB vestigial side band, filtered by means of a SAW surface acoustic wave filter, designed to work with adjacent channels. Supplied with diplexing and multiplexing bridges and power cable.

CODE		9120129		
MODEL		TP-559		
TV System		DVB-S → AM-TV PAL B/G CCIR	DVB-S → AM-TV PAL I UK	DVB-S → AM-TV PAL D/K OIRT
Audio		Mono / Stereo Dual (Analogue)	Mono	Mono / Stereo DK3 Dual (Analogue)
<b>QPSK reception</b>				
Frequency range	MHz	950 - 2.150		
Frequency step	KHz	1		
Input level	dB $\mu$ V	38..83		
	dBm	-70..-25		
Range of capture	MHz	$\pm$ 5		
LNB power supply	V $\overline{=}$	+12		
	mA	350 máx		
Symbol rate	Mbaud	1..45		
F.E.C.		Auto, 1/2, 2/3, 3/4, 5/6, 7/8 (DVB: EN 300429)		
Diplexing through loss	dB $\pm$ TOL	1.0 $\pm$ 0,2		
<b>RF Modulator</b>				
Frequency range	MHz	46 - 894		
Frequency step	KHz	250		
Output channel		2 - 4 5 - 12 21 - 69 S1 - S41	R1 - R4 R5 - R12 21 - 69 S1 - S41	
Modulation		VSB		
Output level	dB $\mu$ V $\pm$ TOL	85 $\pm$ 2,0		

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Output level adjustment	dB	15		
Carrier/noise ratio (C/N)	dB	>60		
Audio signal/noise ratio	dB	>45		
Chroma-luminance delay	ns	<10		
No-linearity of luminance	%	<3		
Differential gain	%	<3		
Differential phase	°	<3		
Response to the 2T pulse	%	<2		
Multiplexing through loss	dB	0.9 ±0,1		
<b>General features</b>				
Return loss	dB	>15		
Connectors		F female		
Power supply	V <sub>DC</sub>	+3.3	+5.2	+12.0
	mA	704	340	80+LNB
Operating temperature	°C	-10..+65		
Room temperature with/ without fan	°C	-10..+55/+45		
Protection index		IP 20C		
Units per packaging		1		
Packing weight	Kg	1.10		
Packing dimensions	mm	265 x 165 x 40		