

### Channel processor



#### Description

Programmable Channel Processor for VHF and UHF with high selectivity. Each module is programmed to be set to a channel in the VHF or UHF range. The level of the channels is adjusted automatically or manually from the broadband amplifier of the equipment. Programmable using PC software and a wireless programmer.

#### Applications

Medium-sized collective digital and analogue terrestrial TV installations. For use in areas where the reception is difficult, with substantial differences in level between channels.

#### Characteristics

Can be programmed by channel or frequency. The high selectivity makes it possible to use the processors in adjacent channels. Automatic gain adjustment. The modules remain highly stable with variations in temperature. Preamplifiers powered automatically with protection against short circuits.

CODE		9050139		9050122	
MODEL		ZA-331		ZA-431	
TV System		AM-TV / DVB-T			
Connection		F female			
Filters per module		1			
Frequency range	Band	VHF		UHF	
	MHz	174 - 238		470 - 862	
Bandwidth of each filter	MHz	7 / 8			
Frequency step I/O	MHz	0.25 AM-TV 0.5 DVB-T			
Input / output offset	MHz	-3/6, -2/6, -1/6, 0, +1/6, +2/6, +3/6 DVB-T			
Input level	dB $\mu$ V	max.	80 AM-TV 70 DVB-T		
		min.	60 AM-TV 50 DVB-T		
Output level	dB $\mu$ V	70 $\pm$ 3,0 AM-TV 60 $\pm$ 3,0 DVB-T			
Maximum output level	dB $\mu$ V	78 $\pm$ 3,0 AM-TV DVB-T (manual adjustment)			
Output level stability		dB		<1	
Selectivity	8 MHz	dB	$C_n - C_{n\pm 1}$	>70 AM-TV	
			$f_c - f_{C\pm 4 \text{ MHz}}$	>9 DVB-T	
			$f_c - f_{C\pm 8 \text{ MHz}}$	>70	
Selectivity	7 MHz	dB	$C_n - C_{n+1}$	>70 AM-TV	
			$C_n - C_{n-1}$	>22	
			$f_c - f_{C\pm 3.5 \text{ MHz}}$	>4 DVB-T	
			$f_c - f_{C\pm 7 \text{ MHz}}$	>70	

Further specification on the following page.

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From previous page.

CODE			9050139	9050122
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Channel flatness response	dB		±0,5	
Diplexing through gain	dB		0.5 ±0,3 (174-862 MHz)	
Multiplexing through loss	dB		1.0 ±0,1	
Noise figure	dB		8.5 ±1,0	
Return loss	dB		>14	
Output voltage	V <sub>DC</sub>		+24	
	mA		60	
Power supply	V <sub>DC</sub>		+5.7	+24
	mA		350	5+Preamp.
Operating temperature close to equipment	°C		-10..+65	
Room temperature with/without fan	°C		-10..+55/ +45	
Protection index			IP 20	
Units per packing			1	
Packing weight	Kg		0.48	
Packing dimensions	mm		196 x 76 x 32	

Programmable with PS-011.