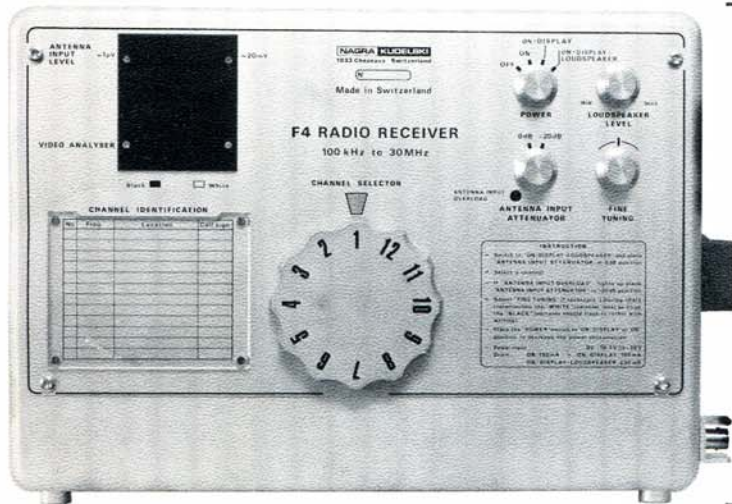


NAGRAFAX SHEET 2



FAXDM

F 4 decametric receiver

NAGRA KUDELSKI

FEATURES

- * 12 plug-in channels, quartz stabilized
- * Easy to operate
- * Light and robust anodized aluminium construction
- * Very low consumption

The FAXDM decametric receiver is a unit which has been especially designed for facsimile transmitters reception, modulated frequency (FSK or F4). According to the type of channels used, frequencies from 100 kHz to 30 MHz can be received.

Its conception was guided by the desire to create a reliable unit, as simple to operate as possible having at the same time all the characteristics of professional equipment.

The choice of channels is made by a rotary selector and the replacement is effected by plug in inside the receiver. Each channel consist of a double quartz oscillator as well as an input selector filter. The unit is splashproof.

The unit is fitted with a fine frequency centering adjustment with a visual LED analyser. The input reception level displayed by another LED assembly can be attenuated to 20 dB. A built-in loudspeaker allows subjective appreciation of received signals quality and sharpness.

With direct feed by means of the NAGRAFAX tracer FAXTHF, consumption does not exceed 230mA and can be lowered to 150mA if testing LED displays and loudspeaker are disconnected.

The aerial consists of a simple wire linked to an impedance adapter fitted with a 5 m. screened cable for direct connection to the FAXDM F4 receiver.

SPECIFICATIONS

Dimensions	320 x 230 x 131 mm.	AERIAL ADAPTOR	
Weight	3.8 kg. (without channel)	Input	Asymmetrical
Weight of one channel	0.130 kg.	Impedance	
Power supply	10.7 V to 35 V DC direct through FAXTHF tracer	VLF	5 kOhms approx.
Consumption	230 mA max. 150 mA min.	HF	200 Ohms approx.
		Output	50 Ohms
Antenna input	50 Ohms on BNC plug, floating or earthed through a built-in switch. Protected against electrostatic discharges Built-in -20 dB attenuator		
Video output	Continuous on two sensitivities, with automatic switching		
	VLF	$f_0 + 150 \text{ Hz}$	$V_{\text{out}} = 6 \text{ V}$
		$f_0 - 150 \text{ Hz}$	$V_{\text{out}} = 4 \text{ V}$
	HF	$f_0 + 400 \text{ Hz}$	$V_{\text{out}} = 6 \text{ V}$
		$f_0 - 400 \text{ Hz}$	$V_{\text{out}} = 4 \text{ V}$
	Z load	> 2 kOhms	
Channels	Quartz stabilized, with input selective filter of approximately 7 % width and a rejection above 40 dB $\pm 15 \%$ of the central frequency		
Bandwidth after demodulation	900 Hz		
Input voltage	1 μV for SNR=20dB at video output		
Intermodulation	Two signals of equal amplitude situated in the input filter bandwidth which will induce a reception corresponding to an input signal of 1 μV $V_{\text{in}} = 7 \text{ mV}$		
Saturation indicator	Lights up when an input signal of more than 40 mV is present, outside of the receiver bandwidth, but inside of the input selector filter		
First IF penetration	One transmitter amplitude on a 43.5 MHz frequency which will induce a reception corresponding to a 1 μV input signal $V_{\text{in}} = 81 \text{ mV}$		
Fine tuning	$\pm 1.5 \text{ V}$ at video output		
Monitoring	Beat of 1.9 kHz in relation to the reception frequency		

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