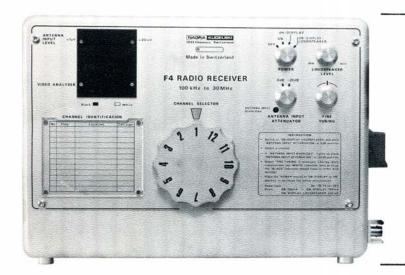
## NAGRAFAX SHEET



### 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

Im, adance

Asymetrical

Weight of one channel 0.130 kg.

Power supply

10.7 V to 35 V DC direct through

FAXTHF tracer

VLF

5 kOhms approx.

HF

200 Ohms approx.

Consumption

230 mA max. 150 mA min.

Output

50 Ohms

Antenna input

50 Ohms on BNC plug, floating or earthed through a built—in switch. Protected against electrostatic dis-

charges

Built-in -20 dB attenuator

Video output

Continuous on two sensitivities,

with automatic switching

VLF

fo + 150 Hz

V out = 6 V

HF

fo - 150 Hz fo + 400 Hz V out = 4 VV out = 6 V

fo - 400 Hz

V out = 4 V

Z load

> 2 kOhms

Channels

Quartz stabilized, with input selective filter of approximatively 7 % width and a rejection above 40 dB ± 15 % of the central frequency

Bandwidth after

demodulation

900 Hz

Input voltage

1  $\mu$ V for SNR=20dB at video output

Intermodulation

Two signals of equal amplitude situated in the input filter bandwidth which wil induce a reception corresponding to an

input signal of  $1 \mu V$ 

V in = 7 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  $\mu$ V input signal

V in = 81 mV

Fine tuning

± 1.5 V at video output

Monitoring

Beat of 1.9 kHz in relation to the

reception frequency

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