



## T M-8 WIDE-BAND A2 STEREO MODULATOR

### OPERATING INSTRUCTIONS

TM-8 is A2 stereo/multistandard mono modulator, which can be used on the adjacent channels (VSB modulation) from S2 to E69. The required output frequency as well as other features are selected with the push buttons on the front panel.

### INSTALLATION

TM-8 must be installed in a dry and locked room.

The modulator can be installed on the wall by using fixing holes.

Sufficient air current must pass around the unit.



Fig 1.

Video signal is connected to **VIDEO IN** connector (RCA-female) and audio signals to **AUDIO IN** connectors (RCA-female).

The **RF OUT** (F-female) is connected to the network via a tap or combiner.

The modulator is supplied with the power supply, which is connected to **DC IN** connector. The **LOCK** led is showing that the power is connected.

### PROGRAMMING

**Note!** There can be interference in the picture during programming. The interference disappears after programming is ready and display is switched off.

TM-8 is programmed with the push buttons **UP**, **DOWN** and **SELECT**. The programmable functions are in the Table 1.

ADJUSTABLE FEATURE	DISPLAY	EXPLAIN
Output frequency	<b>112...855</b>	Output frequency of TM-8 +0,25 MHz
Output level	<b>L 0...-20</b>	Attenuator 0...20 dB
Modulation depth	<b>br 0...2</b>	Brightness. Recommended value is 1.
Audio mode	<b>STER</b> <b>mono</b>	A2 stereo mono
Deviation	<b>AL o 0...3</b>	Audio level. Recommended value is 3 *).
Transmission standard	<b>nor b</b> <b>nor i</b> <b>nor L</b> <b>nor d</b> <b>nor n</b>	B/G-standard I-standard *) L-standard *) D/K-standard *) M/N-standard *)
Test signal	<b>t on...oFF</b>	Test signal on/off.

**Table 1.**

\*) Deviation and I-,L-, D/K-, M/N-standards are selectable only in **mono** mode.

Press **UP**, **DOWN** and **SELECT** push buttons down. Release UP and **DOWN** push buttons at first. Then release **SELECT** push button. Reading on the display is the output frequency.

The frequency can be changed by push buttons **UP** and **DOWN**. The output frequency is digits on the display +0,25 MHz. After selecting the output frequency wait about 4 seconds until the **LOCK** led lights up and the frequency is stored.

Move to the next adjustable feature by pressing **SELECT** push button. Next function must be selected during 15 seconds after **LOCK** led have lighted up. Otherwise the display, except **LOCK** led, is cleared and the modulator is locked.

Select the required value by **UP** and **DOWN** push buttons. The selected value is stored when **LOCK** led is lighted up.

All features can be adjusted as above.

## SPECIFICATION

### RF

Modulation	AM VSB
Output frequency	112,25 ... 855,25 MHz
Transmission standard	B/G (A2 stereo) or D/K, I, L, M/N (mono)
Output level	115 dBuV, adjustable -20dB/75ohm
Spurious products	≤ 60dbc
Output impedance	75 ohm

### Video

Nominal input level	1,0 Vpp
Input impedance	75 ohm

### Audio

Nominal input level	0,5 Vrms
Input impedance	4,7 kohm

### General

Power max.	15V/500mA
Operating temperature	-10...+50 oC
Dimensions	130*110*40 mm