



TM-800 A2/NICAM STEREO TV MODULATOR

OPERATING INSTRUCTIONS

TM-800 is a stereo/multistandard mono modulator, which can be used on the adjacent channels (VSB modulation) from S2 to E69.

TM-800 series consist of optionally one, two or three VSB modulators, common control board and power supply.



INSTALLATION

The modulator is designed for standard 19" rack mounting. Sufficient air current must pass around the unit. Do not cover the air passage holes.

Video signal is connected to **VIDEO IN** connector and audio signals in **AUDIO IN** connectors. **RF OUT 1 ... RF OUT 3** are connected to the network via a tap or RF combiner.

PROGRAMMING

Note! There can be interference in the picture during programming. The interference disappears after programming is ready.

To open the locking code press first **SELECT** and then **UP** and **DOWN** at the same time. Firstly release **UP** and **DOWN** and then **SELECT**. The display lights up (**CH 1**).

If it is a dual or triple modulator system, select a modulator unit (**CH 1 ... CH 3**) with the **UP** or **DOWN** push button and press then **SELECT**.

If it a single modulator, press **SELECT** (within 10 seconds) to adjust the parameters.

Reading on the display is the output frequency.

The frequency can be changed by push buttons **UP** and **DOWN**. The parameters are stored with the **SELECT** push button.

Move to the next adjustable parameter by pressing **SELECT** push button. Next function must be selected during 15 seconds, otherwise the display, except LOCK led, is cleared and the modulator is locked.

Select the required value by **UP** and **DOWN** push buttons.

All features can be adjusted as above. All programmable functions are shown in the Table 1.

ADJUSTABLE FEATURE	DISPLAY	EXPLAIN
Output frequency	112.25...855.25	Output frequency of TM-200
Output level	L 0...-20	Attenuator 0...20 dB
Audio mode	StErE	A2 or NICAM stereo
	mono	mono
Transmission standard	nor b	B/G-standard
	nor i	I-standard *)
	nor L	L-standard *)
	nor d	D/K-standard *)
	nor n	M/N-standard *)
Test signal	t on...oFF	Test signal on/off.

Table 1.

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

TECHNICAL SPECIFICATION

RF

Modulation		AM VSB
Number of modulators	TM-818	1
	TM-828	2
	TM-838	3
Output frequency range		112,25...855,25 MHz S2 ... E69
Transmission standard		B/G (A2 and Nicam audio), I, L, D/K, M/N (mono)
Output level	TM-818	105 dB μ V, adjustable -20dB/75ohm
	TM-828	105 dB μ V, adjustable -20dB/75ohm
	TM-838	105 dB μ V, adjustable -20dB/75ohm
Spurious products		\leq 60dbc
C/N	in-band	59 dB with 115 dBuV output level
	out-band	69 dB with 115 dBuV output level
S/N		55 dB
Output impedance		75 ohm

Video

Nominal input level	1,0 V _{pp}
Input impedance	75 ohm

Audio

Nominal input level	0,5 V _{rms}
Input impedance	4,7 kohm

General

Power	100-240VAC, 50-60 Hz
Operating temperature	-10...+50 °C
Dimensions	19", 1RU
Weight	TM-818 2,5 kg
	TM-828 2,7 kg
	TM-838 2,9 kg