

Code: MT-41

## MODULATOR TV **MT-41** TERRA

Double sideband modulator controlled by a microprocessor. The choice of output channel is performed with two buttons (after opening the top cover), and the channel number or any changeable parameter is displayed on the LED display. Channel number and other parameters values are stored in non-volatile memory. Use of quartz-stabilized PLL practically eliminates frequency error. The modulators can be connected in cascade. They also enable combine modulated signals with terrestrial TV signal. There is a possibility to protect the modulator against unauthorized access. Please note, in comparison to the previous series, these Terra modulators can provide compatibility with many versions of the PAL system.



|   |  |
|---|--|
| Inputs:                                       | 1 pcs Video composite (Cinch) 1 pcs RF (F) 2 pcs audio (Cinch) |
| Output:                                       | 1 pcs RF (F)   |
| Video input frequency range:                  | 20 Hz ... 6 MHz  |
| Video input level / impedance:                | 1 V $\pm$ 1 dB / 75 $\Omega$                                   |
| Audio input frequency range:                  | 20 Hz ... 15 kHz   |
| Audio input level adjustment:                 | 1 ... -14 dB   |
| Audio input level / impedance / deviation:    | 775 mV RMS / 10 k $\Omega$ / 50 kHz                            |
| Level (typical) / RF output impedance:        | 90 dB $\mu$ V / 75 $\Omega$                                    |
| RF output level adjustment:                   | 0 ... -20 dB   |
| RF output PAL signal version:                 | B/G/D/K/H/I/L/M/N/Australia                                    |
| RF output frequency (channels) range:         | 470 MHz ... 862 MHz (K21-69)                                   |
| Carrier frequency error:                      | $\pm$ 50 kHz   |
| Audio subcarrier frequency:                   | 4.5 ; 5.5 ; 6.0 ; 6.5 MHz                                      |
| Fine tuning range of video carrier frequency: | $\pm$ 2.25 MHz max. with 0.25 MHz step                         |
| SAT / Terr loop-through loss:                 | 2.5 dB / 1.5 dB  |
| SAT / Terr loop-through frequency range:      | 47 MHz ... 2150 MHz  |

|                                       |   |
|---------------------------------------|---|
| Video frequency response:             | ± 1 dB  |
| A/V ratio:                            | 12 / 16 dB  |
| Amplitude modulation depth (typical): | 81 %  |
| SNR (weighted):                       | ≥ 55 dB   |
| Power supply:                         | 230 V AC @ 50Hz   |
| Power consumption:                    | 2.5 W   |
| Operation temp:                       | -10 °C ... 50 °C  |
| Main features:                        | <ul style="list-style-type: none"><li>• video carrier frequency adjustment</li><li>• audio subcarrier modulation depth changing</li><li>• audio subcarrier from video carrier frequency distance changing</li><li>• deviation of audio carrier for input level adjustment</li></ul> |
| Weight:                               | 0.336 kg  |
| Dimensions:                           | 133 x 73 x 39 mm  |
| Manufacturer / Brand:                 | TERRA   |
| Guarantee:                            | 2 years   |