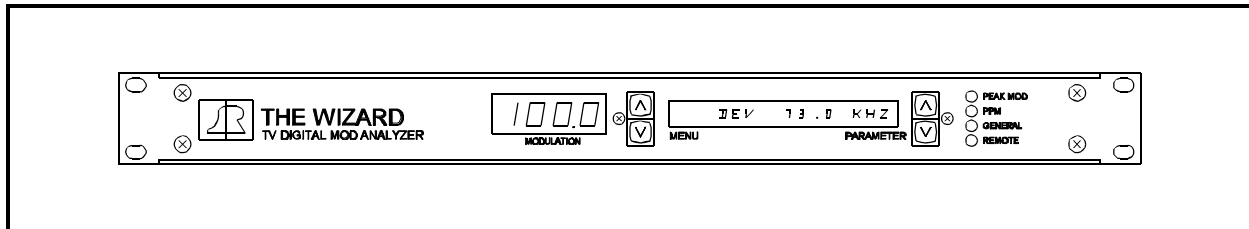


BELAR "THE WIZARD" PRECISION DIGITAL TV MODULATION MONITOR/ANALYZER

TVMA-1



DESCRIPTION

The TVMA-1, TV Wizard is a micro-processor controlled, digital baseband TV modulation monitor/analyser that precisely measures peak modulation, peaks per minute, average peak modulation, modulation density, and more. The Wizard can operate with an existing TV modulation monitor, or it can accept 4.5 Mhz from a good TV visual demod. The Wizard Software (included with The Wizard) and an IBM compatible personal computer enable real-time graphing, logging, and remote operation through the RS-232 port.

The TV Wizard features user-defined parameters and settings for maximum flexibility. The two large UP/DOWN menu keys are used to cycle the 16 digit alphanumeric display to the desired menu; the UP/DOWN parameter keys are then used to select the desired setting. The configuration can be saved to non-volatile memory in the unit in the event of a power loss.

A built-in Audio Sentry audio failure alarm alerts you to loss of modulation.

SOFTWARE

The Wizard Software allows the Wizard to be accessed and controlled remotely using either a direct RS-232 connection, or a pair of modems and a dial-up telephone circuit. The front panels of the Wizard and all associated units may be simultaneously displayed and independently controlled on the PC screen. In the graphing mode, a moving window in time shows modulation levels over the preceding adjustable time window. Peak, average, minimum, and density of modulation may all be displayed in the time windows, with the readings scrolling across the PC screen, as well as in color bar-graphs. Modulation histograms, calculated using either a sliding or an infinite-length window, are also available. All collected data may be logged to disk for future reference and comparison. The Wizard software is fully password protected with three levels of security.

Specifications are subject to change without prior notice.

All Belar products are Y2K compliant.



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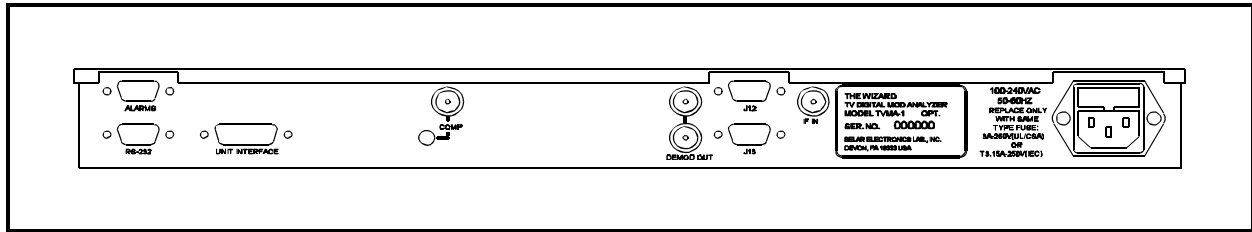
119 LANCASTER AVENUE ! P.O. BOX 76
DEVON, PA 19333-0076 USA ! VOICE (610) 687-5550 ! FAX (610) 687-2686
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Where Accuracy Counts . . . Count on Belar

Manufactured in the U.S.A.

BELAR "THE WIZARD" PRECISION DIGITAL TV MODULATION MONITOR/ANALYZER

TVMA-1



MEASUREMENTS

- ! Total Peak Modulation in Percent
- ! Peak Modulation expressed in kHz Deviation
- ! Peaks-per-Minute Count
- ! Peak Average Modulation
- ! Average/Peak Modulation Ratio
- ! Peak Minimum Modulation

SETTABLE PARAMETERS

- ! Hold Time
- ! Peak Modulation Indicator
- ! Peaks-per-Minute Indicator
- ! Display Hold
- ! Display Blanking
- ! Peaks-per-Minute Duration
- ! Remote Enable
- ! Audio Failure Alarm - Time & Modulation
- ! Display Resolution (0.1% or 1%)
- ! Time Mode (Real/Past)
- ! Peak Weighting (8 time constants)
- ! Precision Modulation Calibrator (with Option 01)

SPECIFICATIONS

- Accuracy: 0.1%
- Display: . . . Large 4 digit LED for Total Modulation,
16 segment alphanumeric LED display
for menus and parameters
- Input: Composite
- Serial Interface RS-232
- Remote Alarms relays for Peak Modulation,
Peaks-Per-Minute, Remote, General
- Dimensions 1 EIA Rack unit
1.75"D x 14"D x 19"W
- Power Requirements 15 Watts, 100-240 VAC
50-60Hz
- Shipping Weight 12 lbs

Option 01: Precision TV Demodulator with Calibrator

- Input: 4.5 Mhz
- Output: Two 75 ohm buffered, composite
- Audio Output (mono) 600 Ω balanced,
2.5 Vrms unbalanced, 9-pin D-connector
- Signal/Noise: > 95dB
- Distortion (IM): < 0.003%
- Distortion (THD): Unmeasurable (< 0.01%)

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