

# Model Two Lite

Signal Level Meter  

- 5 to 870 MHz Standard Frequency Coverage
- Large, High-Resolution Display
- Extended Battery Life
- Rugged, Simple to Use, and Cost Effective



## Overview

Built on the strengths of Trilithic's popular Model Two™ signal level meter, the Model Two Lite™ has been fine-tuned to the needs of the installer and small system operator. Performing the basic signal level, return ingress, and system flatness tests needed for insuring signal integrity, the Model Two Lite is the ideal basic service instrument for maintaining small community distribution systems and systems serving resorts, hotels, and other large facilities.

The Model Two Lite shares the Model Two's long battery life, operating up to six hours on a single charge and recharging in less than three hours, even from vehicle power.

Like the Model Two, the Model Two Lite is built for heavy use. Housed in a sturdy plastic enclosure, every Model Two Lite includes a padded sleeve. To protect the meter when it is not in use, every Model Two Lite includes a foam rubber-padded leather case that holds the meter and all its accessories.

With all these advantages, plus exceptional accuracy, tight temperature stability, wide measurement range, and an unmatched price, the Model Two Lite is the best, most cost-effective installation meter you can buy today.

## SIGNAL LEVEL MEASUREMENT

The Model Two Lite offers several ways to view signal levels. You can tune to a particular frequency or channel number and display aural and visual carrier strength, or the power of a digital channel. For a quick view of drop performance you can display the amplitudes of up to 12 selected channels in a single view, with the calculated value of system tilt. Concerned with amplifier imbalance or cable damage? Track down the problem quickly by scanning and graphing the levels of all channels from 5 MHz to 870 MHz.



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# Model Two Lite Signal Level Meter

## RETURN SPECTRUM MODE

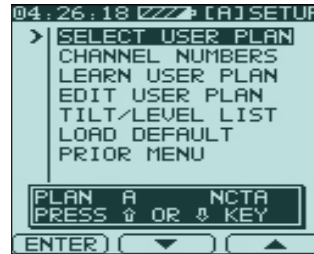
Most ingress enters the plant through the subscriber connection. Using spectrum mode, you can scan and measure any ingress present at the sub's ground block, all the way to -40 dBmV, before connecting the sub to your system. The Model Two Lite's 5 to 65 MHz spectrum analyzer also helps you track down ingress problems that can disrupt Internet, PPV, and other two-way services.

## VOLTMETER FUNCTION

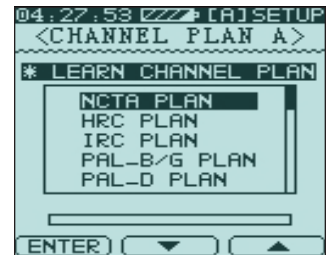
Working with powered drops? Troubleshooting distribution power supplies? The Model Two Lite includes a digital voltmeter calibrated for AC or DC measurements up to 100 volts.

## PLAN FOR THE FUTURE

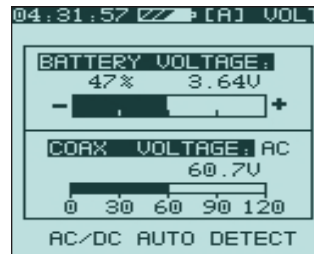
The Model Two Lite can grow with your needs. At any time, you can bring your Model Two Lite up to full Model Two capability, by adding C/N measurements, data logging, full-range spectrum analysis, and a range of other useful functions.



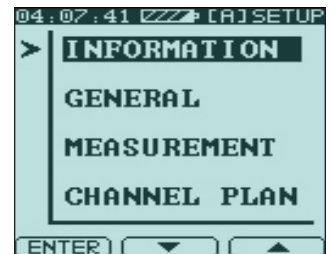
Learn and edit up to 5 channel plans.



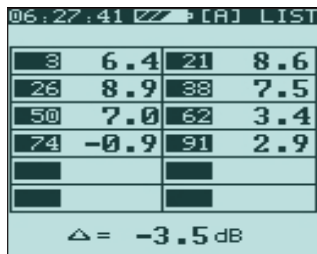
Choose from 8 base channel plans.



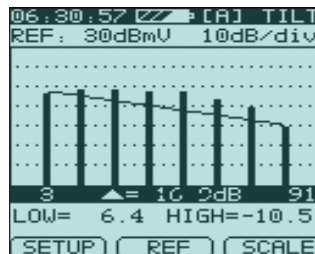
Measure up to 120 Volts, AC/DC.



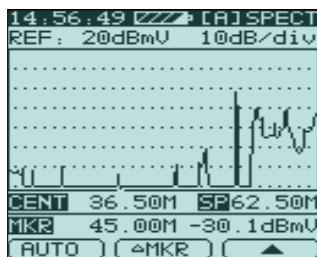
Simple, intuitive set-up screens.



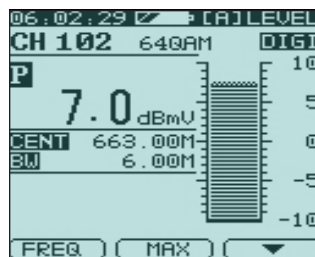
Display favorite channels and tilt in tabular form.



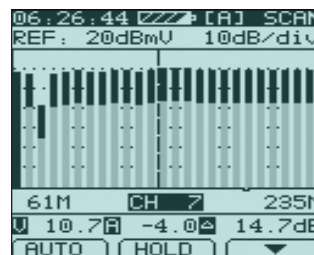
Display favorite channels and tilt as a graph.



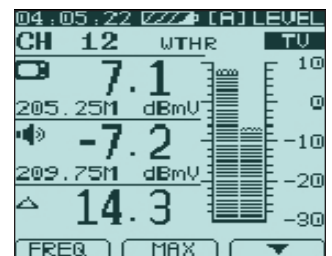
Display RF spectra from 5 to 65 MHz.



QAM power available in numeric (shown) and graphic displays.



Scan all channels and zoom-in 5 levels of magnification.



Single channel display, with Δ V/A.



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# Model Two Lite Upgrade to Model Two

The following enhancements are available only as a single package to upgrade the Model Two Lite to the full capabilities of a Model Two.

## LIMITS TESTING (LIMIT)

Equips the Model Two Lite to automatically perform level tests to FCC specifications or user-defined limits. Analyzes data and presents a list of channels that passed and failed.

## AUTO-TEST (AUTO)

Permits user programs to automatically perform level, spectrum, tilt, and limit testing in programmable time increments. This is ideal for required 24-hour tests.

## FREQUENCY SPECTRUM SCAN (SPECT)

Expands spectrum scan to the frequency range of 5 to 870 MHz. Allows full forward and reverse spectrum views.

## TRANSMISSION CHARACTERISTIC TEST

Allows operator to perform normalized scans of all channels. Graphs result to display flatness and tilt of the system.

## SAVE MEASUREMENT DATA FILES (FILE)

Allows measurements to be stored for later viewing or uploading to the optional PC application, ToolBox™, for analysis, printing, and archiving. Saved files are: level, tilt, scan, limit, and spectrum.

## Model Two vs. Model Two Lite

	MODEL TWO LITE	MODEL TWO LITE UPGRADE	MODEL TWO
Part Number	2010967013	0930103100	2010967003
Single Channel Level	•		•
Tilt and Favorite Group Levels	•		•
Digital Channel Level Measurement	•		•
Full Scan Display	•		•
Voltmeter Function	•		•
Spectrum Analyzer Frequency Range (MHz)	5 to 65	5 to 870	5 to 870
Single Channel Spectrum		•	•
Data Logging		•	•
Testing to Limits		•	•
Auto-Test (Macros)		•	•
File Saving, Viewing		•	•



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## Specifications

<b>Frequency</b>	<b>Range:</b> 5 to 870 MHz <b>Accuracy:</b> $\pm 50$ ppm @ 20° C $\pm 5^\circ$ (68° F $\pm 9^\circ$ ) <b>Resolution:</b> 10 kHz	<b>Display</b>	128 x 128 backlit LCD
<b>Channel Type</b>	<b>Analog TV:</b> TV <b>Digital TV:</b> QAM, QPSK <b>FM channel:</b> single frequency Dual audio channels	<b>Audio</b>	Built-in speaker
<b>Level Measurement</b>	<b>Range:</b> 30 to 120 dB $\mu$ V, -30 to +60 dBmV <b>Accuracy:</b> >35 dB $\mu$ V or -25 dBmV $\pm 1.5$ dB, 10 to 30° C (50° to 86° F) (LEVEL) $\pm 3$ dB, -10 to +40° C (14° to 104° F) (LEVEL) $\pm 2$ dB, 10 to 30° C (50° to 86° F) (SCAN) <b>Resolution:</b> 0.1 dB <b>Input impedance:</b> 75 $\Omega$ (unbalanced, BNC or F-type connector)	<b>Communication Port</b>	RS-232C
<b>Channel Scan</b>	<b>Number of channels:</b> 150 (max) <b>Scanning speed:</b> 2.75 channels per second <b>Scale:</b> 1, 2, 5, 10 dB/div <b>Zoom:</b> 1x, 2x, 3x, 4x, 5x; five levels of magnification	<b>Weight</b>	1.45 lbs (658 g)
<b>Frequency Spectrum</b>	<b>Bandwidth:</b> 2.5 MHz, 6.25 MHz, 12.5 MHz, 25 MHz, 62.5 MHz <b>Scale:</b> 1, 2, 5, 10 dB/div	<b>Dimensions (H x W x D)</b>	8.58" x 3.74" x 1.93" (218mm x 95mm x 49mm)
<b>Digital Channel Power (Average)</b>	<b>Bandwidth:</b> 0.28 - 6.25 MHz <b>Center frequency:</b> 5 MHz (plus $\frac{1}{2}$ channel bandwidth) to 870 MHz (minus $\frac{1}{2}$ channel bandwidth) <b>Digital modulation:</b> QAM, QPSK	<b>INCLUDES THE FOLLOWING:</b> Carrying case Shoulder strap Protective rubber bumper AC battery charger User's manual  <b>ACCESSORIES:</b> CL-6 vehicle power adapter <b>P/N 2071483000</b>  CC-17 protective sleeve <b>P/N 2130856000</b>  CC-18 holster with belt loop <b>P/N 2130854000</b>  I/O-11 PC data cable <b>P/N 2071351000</b>  I/O-15 precision RF coaxial test cable <b>P/N 2071527048</b>  ToolBox software (includes I/O-11 PC data cable) <b>P/N 0930089000</b>	
<b>Tilt Measurements</b>	<b>Number of channels:</b> 4 to 12 <b>Resolution:</b> 0.1 dB		
<b>Trunk Voltage Measurement</b>	<b>Input range:</b> 1.2 to 100 VAC, 1.0 to 100 VDC <b>Accuracy:</b> $\pm 1.0$ V <b>Resolution:</b> 0.1 V		
<b>Power</b>	3.6 V, 3.5Ah NiMH battery <b>AC charger:</b> 100 to 240 VAC, 50/60 Hz, 1.8 A 7 VDC (max) Provides 6 to 8 hours of continuous operation <b>Charge time:</b> Less than 3 hours		