

TEGAM MODEL 730A

WIRELESS DATALOGGING HANDHELD BOND METER



Advanced Energy's TEGAM new 730A series bond meters are the only wireless portable bond meter assembled in the U.S.A. that offer superior accuracy, 100-hour battery life, and a 3-year warranty.

PRODUCT HIGHLIGHTS

- Wireless Link (Bluetooth LE)
- IOS/Android/Windows Support
- Superior Accuracy $\pm(0.2\% \text{ Reading} + 0.02\% \text{ Range})$
- Widest Probe Selection
- Uncomplicated, Back-lit Display
- 100-Hour Battery Life (3AA)*
- Smallest and Lightest Bond Meter
- 3-Year Warranty
- Assembled in USA

*Actual battery life depends on measurement range and frequency and bluetooth operation.

TYPICAL APPLICATIONS

- Aerospace
- Alternative Energy
- Automotive
- Electronics
- Electrical Systems

AT A GLANCE

Accuracy

$\pm(0.2\% \text{ Reading} + 0.02\% \text{ Range})$

Temperature Range

-10 to 55 °C / 14 to 131 °F

Reading Rate

3 Readings per second

Connector Type

M12

Battery

3AA (IEC LR6, ANSI 15) Alkaline



OVERVIEW

Trust is an essential feature in any measurement tool and Advanced Energy's TEGAM new 700 Series bond meters are instruments you can rely on every day with confidence. These new models are designed with the clearest and most informative displays for mistake-free usage. They quickly produce accurate readings to reduce the time spent measuring.

TEGAM is the largest producer of bond meters for airframe testing in both military and commercial applications. We also make some of the finest low resistance measurement instruments in the world. We combined this experience into the smallest size bond meter that you can take with you anywhere on an airframe with ease. We also developed unique low power techniques so that you don't have to deal with power cords or battery chargers. The 730A will run for up to 100 hours on 3 standard AA batteries and has auto power off to preserve them. The battery health is clearly indicated so that you have ample warning for replacement.

Probes are often more important than the instrument. No one has a wider range of configurations to meet and adapt to your needs. From tight spacing to piercing paint, we have a handle and tip combination for virtually all applications. You can mix styles to make your job easier. The dual connector system permits a Kelvin Clip on one lead for secure ground connection while the ergonomic tri-shape probe on the second lead can be used for accessing multiple points with one hand.

The creative ergonomic design makes these instruments easy to hold, easy to read and easy to clean. Designed for one-handed operation, these tools are comfortable to carry and use for extended periods of time.

Like all TEGAM products, the 700 Series bond meters are designed, assembled and tested in the United States. TEGAM backs this durable instrument with a 3-year warranty to assure you that your investment is sound.

For over 30 years, TEGAM has been building hand held instruments for challenging applications. TEGAM's 700 Series extends that experience into highly portable bond meters tasked with producing reliable measurements in tight spaces encountered with aircraft. They are designed to be durable and easy to use, with advanced features for better measurements.

PRODUCT SPECIFICATIONS

| Product Specification | | | |
|-------------------------------------|--|------------|--------------|
| Resistance Ranges and Test Currents | Full Scale | Resolution | Test Current |
| | 10.000 mΩ | 1 μΩ | 100 mA |
| | 100.00 mΩ | 10 μΩ | 10 mA |
| | 1.0000 Ω | 100 μΩ | 1 mA |
| | 10.000 Ω | 1 mΩ | 100 μA |
| | 100.00 Ω | 10 mΩ | 10 μA |
| Basic Accuracy* | ±(0.2% Reading + 0.02% Range) | | |
| Recommended Calibration Cycle | 1 Year | | |
| Connector Type | M12 | | |
| Display | 4½-Digit Auto-Ranging with Backlight and Function Annunciators | | |
| Reading Rate | 3 Readings / sec. | | |
| Battery Type | 3 AA (IEC LR6, ANSI 15) Alkaline | | |
| Battery Life | Standby: 100 hours; Operation in 10 mΩ range: 50 hours | | |
| Remote Operation | Android™, Apple Mobile Device Applications, Windows | | |
| Dimensions | 193 X 84 X 28 mm (7.6 X 3.3 X 1.1 in.) | | |
| Weight (including batteries) | 303.2 g (10.7 oz.) | | |
| Warranty | 3 Years Parts & Workmanship | | |
| Included Accessories | 3 AA Batteries, Quick Start Guide, Certificate of Traceability | | |

*Accuracy based on recommended calibration cycle.

| Environment Specification | |
|---------------------------|---|
| Temperature | -10 to 55 °C (14 to 131 °F) |
| Humidity | 5 to 95%, 10 to 30 °C (5 to 95%, 50 to 86 °F) |
| Altitude | 0 to 4600 m (0 to 15,092 ft.) |
| Vibration | Random 10 to 500 Hz, 0.03 g ² /Hz |
| Shock | 30 g Half Sine |
| Drop | 4 Drops from 1 m to Concrete |

ORDERING INFORMATION

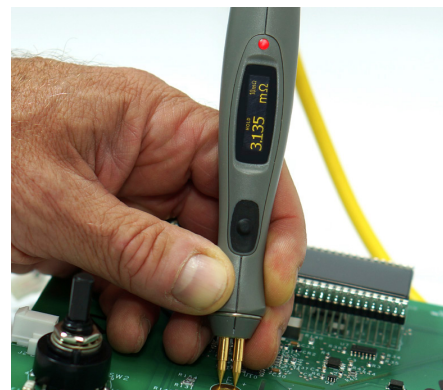
| Item | Part Number | Description |
|--|---------------|--|
| Bond Meter | 730A | Wireless Datalogging Handheld Bond Meter |
| Required Accessories | Probes / Tips | See page 4 & 5 for options |
| Optional Accessories (See product images on page 5) | 700-910 | Tilt Stand / Magnetic / Hanger (Factory Installed) |
| | 700-912 | Tilt Stand / Magnetic / Hanger (User Installed) |
| | 700-911 | Foam-Filled Hard Carry Case |
| | 720-915 | SureGrip Cover |
| | OPT-700-17025 | ISO 17025 Calibration |

ORDERING INFORMATION

Probes

Choose two of the following probes to make a probe set, and choose one or two tip types. Any combination is valid, but only one display probe can be used in a set (display probe must be connected to channel one).

- BKP Standard Kelvin Probe
- BKDP Standard Kelvin Display Probe
- BKEP Big Kelvin Extended Probe, 700 Series
- MKP Miniature Kelvin Probe
- MKDP Miniature Kelvin Display Probe
- MCP Miniature Kelvin Coaxial Probe
- MCDP Miniature Kelvin Coaxial Display Probe
- KC Kelvin Clip Leads



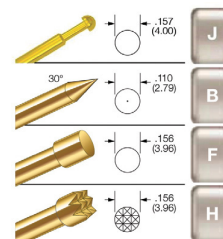
BKDP Standard Kelvin Display Probe

BKP Probe with “B” Style Pins Installed



0.19”
(4.8 mm)
Pin Spacing

BKP Pin Options

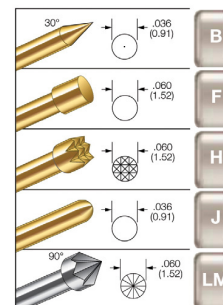


MKP Probe with “B” Style Pins Installed



0.11”
(2.8 mm)
Pin Spacing

MKP Pin Options



MCP Probe



BKEP-M2 Big Kelvin Extended Probe 700 Series



KC Kelvin Clip Leads



ORDERING INFORMATION

| Item | Part Number | Description |
|------------------|-------------|---|
| Standard Kelvin | BKDP-M2 | Big Kelvin Display Probe, 700 Series |
| | BKP-M2 | Big Kelvin Probe, 700 Series |
| | BKEP-M2 | Big Kelvin Extended Probe, 700 Series |
| Coaxial | MCDP-M2 | Miniature Coaxial Display Probe, 700 Series |
| | MCP-M2 | Miniature Coaxial Probe, 700 Series |
| Miniature Kelvin | MKDP-M2 | Miniature Kelvin Display Probe, 700 Series |
| | MKP-M2 | Miniature Kelvin Probe, 700 Series |
| Kelvin Clip | KC-M2 | Kelvin Clip, 700 Series, 2m |
| | KC-M5 | Kelvin Clip, 700 Series, 5m |



700-911
Foam-Filled Hard Carry Case



720-915
SureGrip Cover



700-910 or 700-912
Tilt Stand / Magnetic / Hanger





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ABOUT ADVANCED ENERGY

Advanced Energy (AE) has devoted more than four decades to perfecting power for its global customers. AE designs and manufactures highly engineered, precision power conversion, measurement and control solutions for mission-critical applications and processes.

Our products enable customer innovation in complex applications for a wide range of industries including semiconductor equipment, industrial, manufacturing, telecommunications, data center computing, and medical. With deep applications know-how and responsive service and support across the globe, we build collaborative partnerships to meet rapid technological developments, propel growth for our customers, and innovate the future of power.

PRECISION | POWER | PERFORMANCE | TRUST

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