



TEGAM®

BOND METER

Model 720A



## Handheld Bond Measurements

From the Low Resistance Experts. The only highly-portable, intrinsically safe bond meter assembled in the U.S.A. that offers superior accuracy, 100-hour battery life, and a 3-year warranty.



### FEATURES

- Intrinsically Safe
- Superior Accuracy  
 $\pm(0.2\% \text{ |rdg|} + 0.02\% \text{ Range})$
- 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.

**TRUST** is an essential feature in any measurement tool and TEGAM's 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 measurements 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 720A will run for 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 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.

**When the Measurement Matters, Be Certain with TEGAM.**






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## Specifications

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	4-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 @ 100 mA: 50 hours	
Operating Environment:		
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 10-500 Hz, 0.03 g²/Hz	
Shock	30g Half Sine	
Drop	4 drops from 1 m to concrete	
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 year Parts & Workmanship	
Included Accessories	3 AA Batteries, Quick Start Guide, Certificate of Traceability	
Certifications	Handheld Bond Meter for Hazardous Locations Only as to Intrinsic Safety <div><div> 0539</div><div> IIIG</div><div><div>Ex ia IIA T4 Ga</div><div>Class I, Division 1, Group D, T4</div><div>Class I, Zone 0 AEx ia IIA T4 Ga</div><div>Zone 0 Ex ia IIA T4 Ga</div></div></div> <div><div>E506162</div><div> CLASSIFIED</div><div>UL US</div></div> <div><div>UL 21 ATEX 2549</div><div>IECEX UL 21.0038</div><div>-10 °C ≤ Ta ≤ +55 °C</div></div>	

Ordering Information	Model	Description
Intrinsically Safe Bond Meter	720A	Handheld Bond Meter, Intrinsically Safe

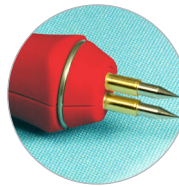
\*Accuracy based on recommended calibration cycle.

## Intrinsically Safe Probes

Choose two of the following probes to make a probe set, and choose one or two tip types.

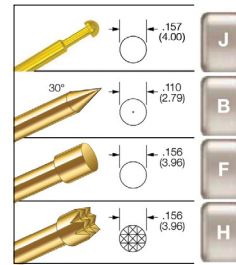
- BKP** Standard Kelvin Probe
- BKEP** Big Kelvin Extended Probe, 700 Series
- MKP** Miniature Kelvin Probe
- MCP** Miniature Kelvin Coaxial Probe
- KC** Kelvin Clip Leads

### BKP-M2S Probe with "B" Style Pins Installed

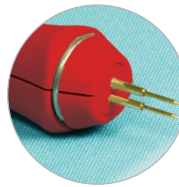


0.19"  
(4.8 mm)  
Pin Spacing

#### BKP Pin Options

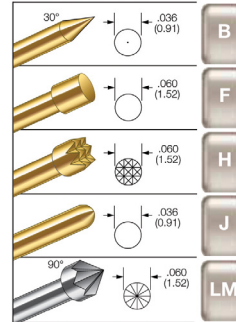


### MKP-M2S Probe with "B" Style Pins Installed



0.11"  
(2.8 mm)  
Pin Spacing

#### MKP Pin Options



### MCP-M2S Probe



### BKEP-M2S Big Kelvin Extended Probe 700 Series



### KC Kelvin Clip Leads





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## Ordering Information (continued)

Part #	Description
Standard Kelvin	
BKP-M2S	Big Kelvin Probe, 700 Series
BKEP-M2S	Big Kelvin Extended Probe, 700 Series
Coaxial	
MCP-M2S	Miniature Coaxial Probe, 700 Series
Miniature Kelvin	
MKP-M2S	Miniature Kelvin Probe, 700 Series
Kelvin Clip	
KC-M2	Kelvin Clip, 700 Series, 2m
KC-M5	Kelvin Clip, 700 Series, 5m
720A-BK Kit	
720A-BK-KIT	Contains: 720A Bond Meter, 2 BKP-M2S Intrinsically Safe Probes with 2 BKP-B "B" Style Pins installed, 720-910 Tilt Stand / Magnet / Hanger, 700-911 Foam-Filled Hard Carry Case, 720-915 SureGrip™ Cover

## Optional Accessories



700-911  
Foam-Filled Hard Carry Case



720-915  
SureGrip™ Cover



720-910 or 720-912  
Tilt Stand / Magnetic / Hanger

# Mouser Electronics

Authorized Distributor

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