

- Instrumentation Amplifiers
- Precision Power Amplifiers
- Waveform Generators
- RF Power Metrology
- Ratio Transformers
- Micro-Ohmmeters
- Temperature
- LCR Meters
- Humidity



Low Resistance  
High Speed

### MODEL 1750

#### High-Speed, Precise, Programmable Micro-Ohmmeter

- Speed: 10 mS
- Accuracy: 0.02%
- Resolution: 100 nΩ
- Offset Compensation
- Lab Accurate / Factory Tough
- Flexible Automation

Model 1750: \$4,495  
Export Price: \$5,135

Contact TEGAM today and put us to the test on your biggest instrumentation or measurement challenge.

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IMPROVING MEASUREMENTS

### Is your measurement important?

At TEGAM, we think it is. We are committed to improving your measurement task by:

- Lower Uncertainties
- Better Accuracies
- Faster Readings
- Responsive Support

Contact TEGAM today and put us to the test on your biggest instrumentation or measurement challenge.

### DC-50 MHz PXI Instrumentation Amplifier

MODEL 4040A

- 100 V Differential Input
- 1M/50 Ohm Inputs
- Programmable Attenuation/Gain/Offset/Filters
- Low Noise Performance

\$1,800  
Export Price \$2,050



### 16-Bit Arbitrary Waveform Generator with Programmable Sync

MODEL 2411B

- 16 Bit Vertical Resolution
- Lowest Harmonic Distortion in Class (-86 dB)
- 2 MHz Sample Rate
- Programmable Waveform Sequencer for Complex Waves
- 4 Programmable Sync Outputs
- 20 Standard Waveforms

\$2,895  
Export Price: \$3,310



### 20 MS/s Extended Memory AWG with Programmable Sync

MODEL 2414B

- 12 Bit Vertical Resolution
- 20 MHz Sample Rate
- Programmable Waveform Sequencer for Complex Waves
- 4 Programmable Sync Outputs
- 20 Standard Waveforms

\$2,595  
Export Price: \$2,995



## High Voltage Precision Power Amplifiers

MODELS 2340 / 2350 / 2375

- Single and Dual Channel
- 400 V pk-pk
- 40 mA
- DC-2 MHz Bandwidth
- 250 V/ $\mu$  Slew Rate
- Driver for Micro-Mirrors, MEMS, Piezo-Elements and Advanced Electrophoresis

Model 2350: \$3,495  
Export Price: \$3,995



Model 2340: \$2,495  
Export Price: \$2,895



Model 2375: \$6,495  
Export Price: \$7,450

## High Current Precision Power Amplifier

MODEL 2348

- Precision Power Amplifier
- 50 V pk-pk
- 750 mA
- DC-2 MHz Bandwidth
- 200 V/ $\mu$  Slew Rate
- Medical Device Testing, Semiconductor Manufacturing, Pulse Amplifier

\$2,995  
Export Price: \$3,495



## The high-voltage, multi-channel, totally integrated MEMS Engine Driver System

The Models 9070 and 9072 MEMS Engine Driver System are designed to drive MEMS rotating microengines.



### Model 9070 Features:

- Precise signal generation
- 0 to 150 V peak output voltage
- Model 2375 4-Channel Amplifier
- Event trigger signals
- Sandia Labs Super uDriver

\$14,975  
Export Price: \$17,195

### Model 9072 Features:

- WaveWorks DDS, Waveform Creation Software
- 2732 Dual Channel Waveform Synthesizer
- 2350 Dual Channel Amplifier
- Inspection Microscope
- Integral Vision System

\$40,000  
Export Price: \$45,000

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We are actively involved!



"Serving the World of Measurement"



Contact TEGAM today and put us to the test on your biggest instrumentation or measurement challenge.

High-Speed, Precise Programmable Micro-Ohmmeter

MODEL 1750

- Range – 2 mΩ to 20 MΩ
- Accuracy – 0.02%
- Resolution – 100 nΩ
- Offset Compensated Ohms
- Fast measurement speed (10 mS)
- Programmable reference currents
- GPIB, RS-232C and PLC compatibility
- Easy to operate and easy to integrate

\$4,495

Export Price: \$5,135



High Accuracy, 1 kHz/120 Hz, Programmable Impedance / LCR Meter

MODEL 3525

- Accuracy – 0.08%
- 1 kHz or 120 Hz test frequencies
- Fast measurement speed (15 mS)
- Extremely compact size (8" w x 4" h x 7" d)
- 99 storable panel settings
- Built-in comparator with audible signal

\$1,895

Export Price: \$2,150



42.0 Hz~5.00 MHz, Programmable Impedance / LCR Meter

MODEL 3550

- Accuracy – 0.10%
- User-programmable test frequency from 42.0 Hz to 5.00 MHz
- 18 ms measurement speed
- 16 measurable parameters
- User defined Test Voltage and Test Current

\$5,500

Export Price: \$5,500



## Automated Precision Ratio Transformer

MODEL PRT-73

- Ratio Range -.001 to 1.0009999
- Remotely programmable via standard IEEE-488 interface
- Standard Resolution to 0.1 ppm
- Optional Resolution to 0.01 ppm
- Terminal Linearity as low as 0.9 ppm
- Wide bandwidth — 10 Hz to 20 kHz
- Standard 0.35 V/Hz, 350 V Max
- Optional 2.5 V/Hz
- Overload protection
- Front panel display for easy set up and operation

\$10,995

Export Price: \$12,400



## Decade Ratio Transformer

MODEL DT72B

- Resolution 0.1 ppm
- Terminal Linearity as low as 0.9 ppm
- Bandwidth 50 Hz to 20 kHz
- Parallel switches reduce contact resistance
- Switch Resistors virtually eliminate switch transients
- Ratio range from -0.0111111 to +1.1111110

\$9,995

Export Price \$11,500



## Decade Synchro / Resolver Standards and Bridges

MODELS DSRB-5CDA-4 / DSRS-5DA

- Resolution 0.0001 degree
- Range 0 to 360 degrees
- Accuracy of at least 4 seconds of arc
- Frequency 400 Hz
- Direct readout in degrees
- Switches good for 100,000 turns

Model DSRB-5CDA-4: \$20,970

Export Price: \$23,965

Model DSRS-5DA: \$20,970

Export Price: \$23,965



- Model 1825 calibrates power sensors 10 MHz to 18 GHz
- Manual or Automated Operation
- Less than half the cost of a comparable System II
- Two switchable RF inputs (Model 1827)
- Ideal for labs with annual calibration workloads of 40 RF power sensors or less
- Can calibrate many popular sensors in 30 minutes or less
- The accuracy and reliability you have come to expect from TEGAM
- Compact and easy to use
- All connectors are located on the front panel for easy connection
- Rack mount kit available

NOTE: Customer must provide an appropriate RF Signal Source, DVM and an RF Power Meter for the UUT.



Model 1825 (10 MHz to 18 GHz): \$12,500  
Export Price: \$14,285

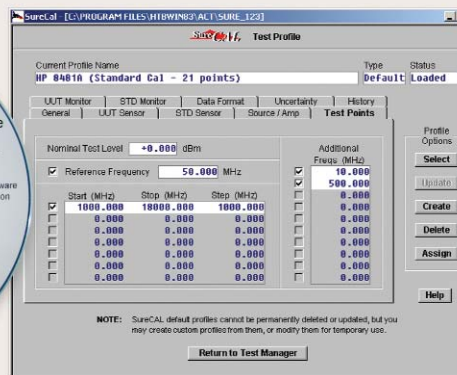


Model 1827 (100 kHz to 18 GHz): \$16,995  
Export Price: \$19,500

Calibration Software

- Fully automated RF power sensor calibration
- User customizable calibration procedures
- Upload and download EPROM data of most Anritsu, Agilent (both E4400 and E9300 series), Boonton, and Giga-tronics power sensors
- Easy to understand graphical hook-up instructions
- Flexible standards allow the operator to use the instruments in their lab
- Data stored in ASCII text files for easy manipulation
- Selecting calibration procedures fast and easy
- Dynamic Uncertainty Calculations
- **NEW!** VNA Support

\$9,600  
Export Price: \$10,800



## Precision 30 MHz Receiver

MODEL VM-7

- 120 dB range of attenuation measurement
- Rack mount kit available
- Resolution down to 0.001 dB
- +/- 0.060 dB accuracy
- Built-in diagnostic software
- Very fast and easy to use

\$32,700

Export Price: \$37,500



## Dual Input RF Amplifier

MODEL 1727A

- Wide frequency range: 100 KHz-26.5 GHz
- Programmable gain: 0 to 30 dB in 5 dB steps
- Dual switchable inputs: Type N, 3.5mm
- Can be controlled via IEEE-488 GPIB interface
- Excellent for power sensor calibration stations
- Rack mount kit available

\$35,995

Export Price: \$40,450



## Frequency Converters

MODELS 8852 / 8853

- Converts 0.01 to 40 GHz signals to a 30 MHz signal
- For use with Model VM-7 Advanced 30 MHz Receiver
- Rack mount kits available

Model 8852 (10 MHz to 18 GHz): \$57,500

Export Price: \$65,700

Model 8853 (18 GHz to 40 GHz): \$65,000

Export Price: \$74,285



## Attenuation Measurement System

MODEL 8850-18

- Dynamic range greater than 100 dB
- 10 MHz to 18 GHz frequency range can be extended to 40 GHz
- Fast and accurate
- Easy to use manually or with 8850-SureCAL software

\$95,000

Export Price: \$109,000



## RF Power Meter for Metrology

MODEL 1830A

- Frequency Range: 110 GHz (sensor dependent)
- Meter Uncertainty:  $\pm 0.05\%$  of reading,  $\pm 0.5 \mu\text{W}$  (0.1% at 1 mW)
- Calibrate 50 MHz reference outputs
- Compatible with most DC substitution thermistor sensors
- Directly reads calibrated RF power

\$6,795

Export Price: \$7,765



## Dual Type IV Power Meter

MODEL 1806A

- Traceable to primary voltage and resistance standards
- Temperature controller for TEGAM/Weinschel Mounts
- Compatible with Agilent (HP) 200 Ohm thermistor mounts and all TEGAM (Weinschel) RF Power Standards
- Internal reference voltage generator for more precise measurements
- Fault indicator illuminates when loop balance is prevented

\$8,999

Export Price: \$10,115



## Feedthrough RF Power Standards

MODELS F1130A / F1135A

- Provide lowest-uncertainty monitoring of RF power supplied to a Device Under Test
- Calibrate RF power sensors from 100 kHz to 18 GHz (F1130) or from 10 MHz to 26.5 GHz (F1135)
- Temperature controlled for minimal response to ambient environment
- Thermistor bolometer for lowest drift of absolute power reading
- 0.01 to 25 mW power range
- Rack Mount Option available



Model F1130A  
(100 kHz to 18 GHz):  
\$13,500  
Export Price: \$15,500



Model F1135A  
(10 MHz to 26.5 GHz):  
\$13,500  
Export Price: \$15,500

## RF Power Standards

MODEL M1130A / M1135A

- Can be calibrated at NIST with the lowest uncertainty of any sensor type
- Transfer calibration from NIST (or other NMI) to feedthrough standards with the lowest possible uncertainty from 100 kHz to 18 GHz (M1130) or from 10 MHz to 26.5 GHz (M1135)
- Lowest uncertainty of any available CW absolute power sensor
- Temperature controlled for minimal response to ambient environment
- Thermistor bolometer for lowest drift of absolute power reading
- 0.01 to 25 mW power range
- Adjustable stand available

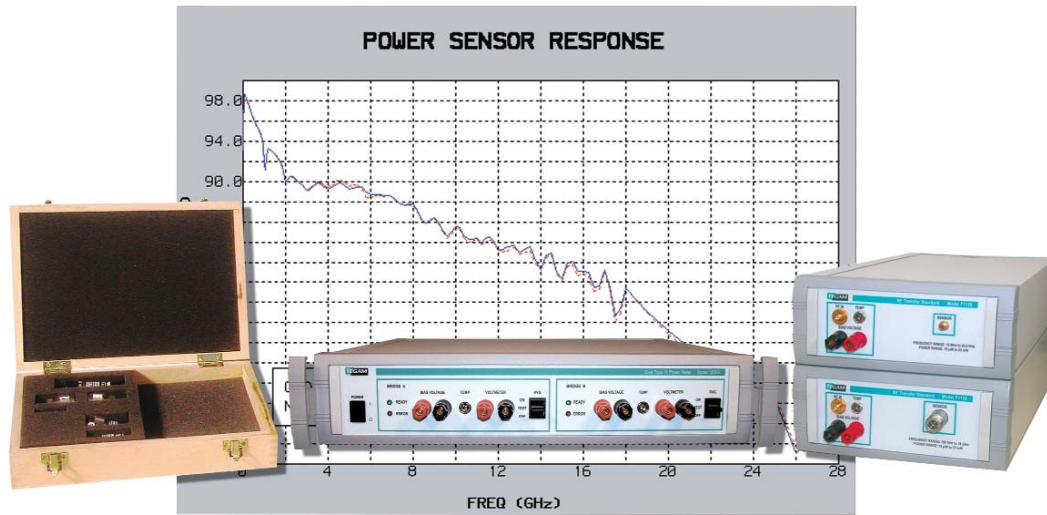


Model M1130A  
(100 kHz to 18 GHz):  
\$11,500  
Export Price: \$13,000



Model M1135A  
(10 MHz to 26.5 GHz):  
\$11,500  
Export Price: \$13,000

- Calibrates power sensors 100 kHz to 26.5 GHz
- Employs measurement techniques utilized by NIST and other NMIs
- Can be used with CW signal generators
- Includes SureCAL Metrology Automation software
- Can calibrate many popular sensors in 5 minutes or less
- The accuracy and reliability you have come to expect from TEGAM
- Rack mount kits available



### System IIB Package Summary

All System IIB packages include:

- 1806A with ANSI/NCSL Z540-1-1994 Compliant Calibration with Data
- SYSII – SureCAL software
- 138-645A accessory kit
- Three 1583-3 GPIB cables
- 1585-1008 RF cable

\*Customer must provide power meter, RF signal source, digital voltmeter, and computer

\*\*RF Amplifier required for some applications

Refer to the table below for additional items included with each package:

Model	F1130	M1130	F1135	M1135	1820	Price
<b>SYSIIB-k18</b> 100 kHz to 18 GHz	•					\$33,995 Export Price: \$38,995
<b>SYSIIB-k18B</b> 100 kHz to 18 GHz	•	•				\$45,495 Export Price: \$51,995
<b>SYSIIB-26</b> 10 MHz to 26.5 GHz			•			\$34,995 Export Price: \$39,995
<b>SYSIIB-26B</b> 10 MHz to 26.5 GHz			•	•		\$46,495 Export Price: \$52,995
<b>SYSIIB-k26</b> 100 kHz to 26.5 GHz	•		•			\$45,995 Export Price: \$52,500
<b>SYSIIB-k26B</b> 100 kHz to 26.5 GHz	•	•	•	•	•	\$69,995 Export Price: \$79,995

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### 110A 1000 V AC/DC Safety Voltmeter – Category III

MODEL 110A

- 1000 Volts AC and DC
- Accuracy:  $\pm (0.2\% \text{ rdg} + 1 \text{ Volt})$  DC and 50/60 Hz
- Resolution – 1 Volt
- 45 to 500 Hz operation
- UL-3111-1 Overvoltage Protection CATEGORY III, CE Approved
- 1M of resistance in each test lead to limit current
- Withstand up to 2,500 Volts
- Auto power off
- 1 year Warranty (Made in USA)

\$225

Export Price: \$255



### Voltman™ Industrial Safety Voltmeter with Audible Tone and Continuity

MODEL 122

- 750 Volts AC and DC
- Accuracy:  $\pm (0.2\% \text{ rdg} + 1 \text{ Volt})$  DC and 50/60 Hz
- Resolution – 1 Volt
- 45 to 500 Hz operation
- Continuity test & backlit display
- Suppresses Phantom Voltages
- An audible tone for AC/DC continuity
- Auto power off
- 1 year Warranty (Made in USA)

\$189

Export Price: \$215



### Voltman™ True RMS Industrial Safety Voltmeter

MODEL 125

- 750 Volts AC and DC
- Accuracy:  $\pm (0.2\% \text{ rdg} + 1 \text{ Volt})$  DC and 50/60 Hz
- Resolution – 1 Volt
- 45 to 500 Hz operation
- Continuity test
- Suppresses Phantom Voltages
- True RMS reading
- Auto power off
- 1 year Warranty (Made in USA)

\$299

Export Price: \$340



### Phase tester / Motor Rotation Indicator

MODEL MR-1A

- No need to disconnect drive shaft couplings
- Protects user and equipment
- Identifies open windings
- Reliable, solid state components
- Test clips open 1/2 in. to fit most terminals
- Shirt-pocket size

\$125

Export Price: \$140



### Phase Sequence Indicator

MODELS T-470A / T-471A

- Instantly and clearly identify A/B/C circuits
- Protects user and equipment
- Fast and Easy way to make three-phase connections
- Open phase lights both lamps
- T-470: 115 TO 700 V, 400 Hz
- T-471: 115 TO 700 V, 50/60 Hz

Model T-470A: \$149

Export Price: \$170

Model T-471A: \$125

Export Price: \$140



### General Purpose Temperature Calibrator

MODEL 847

- Range: -350 °F to +2500 °F
- Accuracy  $\pm 0.3\% + 1^\circ\text{C}$
- Resolution: 0.1 °C/F
- Simulates K, J, or T thermocouple types
- Low battery indicator
- 1 year Warranty (Made in USA)

\$169

Export Price: \$190



### 100 $\Omega$ Platinum RTD Thermometer

MODELS 865 / 866

- Measure temperatures from -55 °C to +150 °C (-70 °F to +300 °F)
- Accuracy: 0.3 % of reading
- Resolution 1° or 0.1°
- °F (Model 865) or °C (Model 866) scales
- Big, easy-to-read LCD display
- 1 year Warranty (Made in USA)

\$199

Export Price: \$225



### 2252 $\Omega$ Thermistor Thermometer

MODELS 868 / 869

- Display temperatures from -360 °F to +1100 °F
- Accuracy: 0.3 % of reading
- Resolution 1° or 0.1°
- Accept three-wire and four-wire platinum probes
- °F (Model 868) or °C (Model 869) scales
- Ideal for cryogenic and high-temperature research or industrial monitoring
- 1 year Warranty (Made in USA)

\$299

Export Price: \$340



### Single Input Handheld Digital Thermometer

MODEL 819A

- Range -346 °F to 2502 °F
- Exceptional accuracy: 0.1 %
- Resolution 0.1/1 °F OR °C
- Repeatability 0.2 °C typical
- ROHS compliant
- Input: K, J and T thermocouples
- Hold display values
- Self-diagnostics show low battery, open TCs, over range, or internal hardware faults
- Two-year calibration guarantee with three year warranty (Made in USA)

\$165

Export Price: \$185



### Dual Input Handheld Digital Thermometer

MODEL 820A

- Range -346 °F to 2502 °F
- Exceptional accuracy: 0.1 %
- Resolution 0.1/1 °F OR °C
- 6 Data logging registers
- Input: K, J thermocouples
- Trend indicators show rising, falling, or stable temperature
- View or continuously scan T1, T2 and T1 minus T2
- Self-diagnostics show low battery, open TCs, over range, or internal hardware faults
- Two-year calibration guarantee with three year warranty (Made in USA)

\$215

Export Price: \$245



### Dual Input Handheld Digital Thermometer

MODEL 821A

- Range -346 °F to 2502 °F
- Exceptional accuracy: 0.1 %
- Resolution 0.1/1 °F OR °C
- 6 Data logging registers
- Input: K, J and T thermocouples
- Trend indicators show rising, falling, or stable temperature
- View or continuously scan T1, T2 and T1 minus T2
- Self-diagnostics show low battery, open TCs, over range, or internal hardware faults
- Two-year calibration guarantee with three year warranty (Made in USA)

\$225

Export Price: \$255



### Temperature Calibrator / Thermometer

MODEL 840A

- Accuracy 0.3 °C ( $\pm 0.5$  °F)
- Input K, J and T type thermocouple
- Simulates and measures K, J and T Type thermocouples
- Calibrator and Thermometer in one unit
- Certificate of Traceability
- Two-year calibration guarantee with three year warranty (Made in USA)

\$550

Export Price: \$620



### Temperature Calibrator / Thermometer with 11 TC types

MODEL 845

- Simulates and measures 11 Thermocouple types
- Step and Ramp Functions provide fast and easy calibration of process controls and instruments
- Accuracy 0.3 °C ( $\pm 0.5$  °F)
- Calibrator and Thermometer in one unit
- Certificate of Traceability
- Two-year calibration guarantee with three year warranty (Made in USA)

\$795

Export Price: \$895



### Temperature Calibrator / Thermometer with RTD and Thermistor

MODEL 850

- RTD, Ohms, Thermocouple and Thermistor functions
- Calibrator and Thermometer in one unit
- 0.1 °C ( $\pm 0.2$  °F) RTD, 0.3 °C ( $\pm 0.5$  °F) Thermocouple and Thermistor Accuracy
- Certificate of Traceability
- Two-year calibration guarantee with three year warranty (Made in USA)

\$950

Export Price: \$1,070



### Temperature Calibrator / Thermometer with RTD and Thermistor

MODEL 855

- Step and Ramp Functions provide fast and easy calibration of process controls and instruments
- Calibrator and Thermometer in one unit
- 0.1 °C ( $\pm 0.2$  °F) RTD, 0.3 °C ( $\pm 0.5$  °F) Thermocouple Accuracy
- Simulates and measures 11 Thermocouple and 2 RTD types
- Certificate of Traceability
- Two-year calibration guarantee with three year warranty (Made in USA)

\$1,275

Export Price: \$1,460



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Our Sales Staff is here to help you.



Kevin Kaufman  
Director of  
National Sales  
kkaufman@tegam.com



David Simerly  
Western Regional  
Sales Manager  
dsimerly@tegam.com



Feng Yang  
Director of  
Asian Sales  
fyang@tegam.com



Adam Fleder  
President / Director  
of International Sales  
afleder@tegam.com

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## Probes

Model Number		Temperature Range	Sensor Type	Applications	Price	Export Price
<b>8713</b> General Purpose Probe		1650 °F (900 °C)	Type-K	Liquids, gases, small surfaces	\$75	\$85
<b>8723</b> General Purpose Probe		1400 °F (760 °C)	Type-J	Liquids, gases, small surfaces	\$85	\$99
<b>8714A</b> Penetration Probe		1650 °F (900 °C)	Type-K	Meats, plastics, semi-soft materials	\$90	\$100
<b>8716</b> Air / Gas Probe		570 °F (300 °C)	Type-K	Hoods, ducts, and vents	\$75	\$85
<b>8715A</b> Surface Probe		750 °F (400 °C)	Type-K	Hotplates, furnaces, molds	\$95	\$109
<b>8665A</b> Surface Thermistor Probe		300 °F (150 °C)	2252Ω	Grills, ovens	\$95	\$110
<b>8666</b> Air / Gas Thermistor Probe		300 °F (150 °C)	2252Ω	Moving air or gas measurement	\$85	\$99
<b>82814</b> Penetration Thermistor Probe		300 °F (150 °C)	2252Ω	Meats and cheeses	\$99	\$115
<b>8693</b> General Purpose RTD Probe		-328 °F to 1112 °F	100Ω	Gases, liquids, soft materials	\$130	\$150
<b>8695</b> RTD Surface Probe		-58 °F to 500 °F	100Ω	Industrial furnaces, grills	\$160	\$180
<b>8696</b> RTD Air / Gas Probe		-58 °F to 500 °F	100Ω	Air and gas measurement	\$160	\$180

## RH / Temperature Controller

MODELS CSP-C1 / CSP-C2 / CSP-F1 / CSP-F2

- Operating range 0 °C to 85 °C at  $\pm 0.6$  °C accuracy, 3 % RH to 95 % RH at  $\pm 2$  % accuracy
- State-of-the-art thin film polymer sensor
- Included duct probe may be up to 1,000 feet from the controller
- Stainless steel probe (10" long, .75" diameter)
- Two 5 Amp, 250 VAC SPDT relays for setpoint output
- One year warranty (Made in USA)

All CSP Models: \$595

Export Price: \$680



## High Temperature RH / Temperature Transmitter

MODELS HTRH-D / HTRH-W

- Operating range -40 °C to 180 °C at  $\pm 0.5$  °C accuracy, 3 % RH to 95 % RH at  $\pm 2$  % accuracy
- 4 to 20 mA outputs
- Adjustable or removable duct flange included with duct mount version
- One year warranty (Made in USA)

Model HTRH-D: \$545

Export Price: \$615

Model HTRH-W: \$495

Export Price: \$560



## RH/Temperature Duct Probe with Integral Transmitter

MODELS RDP-10V / RDP-20C

- Operating range 0 °C to 100 °C at  $\pm 0.6$  °C ( $\pm 1$  °F) accuracy, 3 % RH to 95 % RH at  $\pm 2$  % accuracy
- 4 to 20 mA or 0 to 1 V outputs
- Transmitter built into the probe housing
- Water tight stainless steel housing
- One year warranty (Made in USA)

All RDP Models: \$270

Export Price: \$300



## RH/Temperature

## Wall Mounted Transmitters with Integral Sensor

MODELS RHT-10V / RHT-20C

- Operating range -20 °C to 75 °C at  $\pm 0.6$  °C ( $\pm 1$  °F) accuracy, 3 % RH to 95 % RH at  $\pm 2$  % accuracy
- 4 to 20 mA or 0 to 1 V outputs
- Built-in sensor
- Small size
- One year warranty (Made in USA)

All RHT Models: \$225

Export Price: \$255



## Calibration and Service Plans

### Save Time, Save Money!

Calibration, extended warranty and service plans are available for all qualifying TEGAM products. These plans save you time and money and insure optimal performance of your instrument. The plans may be purchased for new TEGAM equipment at significant discounts. Contact TEGAM for more information.

## Certifications

TEGAM, Inc. meets the requirements of ISO/IEC 17025:2005 "General Requirements for the Competence of Testing and Calibration Laboratories" through A2LA Certificate Number 2018.01.



## TEGAM Contact Info



TEGAM Inc.  
10 Tegam Way  
Geneva, Ohio 44041  
[www.tegam.com](http://www.tegam.com)

**Toll Free:** 800-666-1010  
**International:** 440-466-6100  
**Fax:** 440-466-6110  
**E-mail:** [sales@tegam.com](mailto:sales@tegam.com)

# Calibrate RF Power at 0.25%

**TEGAM**

Be certain.

## Model 1830A

- RF Power Meter for Metrology
- Frequency Range: 110 GHz (sensor dependent)
- Meter Uncertainty:  $\pm 0.05\%$  of reading,  $\pm 0.5 \mu\text{W}$  (0.1% at 1 mW)
- Calibrate 50 MHz reference outputs
- Compatible with most DC substitution thermistor sensors
- Directly reads calibrated RF power

Model 1830A: \$6,795

Export Price: \$7,765



**TEGAM**

10 Tegam Way  
Geneva, Ohio 44041

800-666-1010

[www.tegam.com](http://www.tegam.com)

 **AFC**  
INGENIEROS, S.A.

AFC Ingenieros S.A.  
Paseo Imperial, 6, 2ºD  
28005 Madrid

Contacto: Juan Ojeda  
Directo: 91 7104883  
Móvil: 629160579  
Oficina: 91 3654405

Email: [jojeda@afc-ingenieros.com](mailto:jojeda@afc-ingenieros.com)