

Instrumentation Amplifiers

Precision Power Amplifiers

Waveform Generators

RF Power Metrology

Ratio Transformers

Micro-Ohmmeters

Nanovolt Nullmeter

Soil Resistance Tester

Temperature

LCR Meters

Humidity



## PM Series Microwave Power Calibration System

- Calibrates sensors from all major manufactures up to 50 GHz
- Faster than direct compare method
- Lowest total uncertainty
- National metrology institute class thermistor reference standard
- Complete Automation by SureCAL

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

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

## High-Speed, Precise Programmable Micro-ohmmeter

MODEL 1750

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



## DC-50 MHz PXI Instrumentation Amplifier

MODEL 4040A

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



## 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



## 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



## 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/ $\mu$ s Slew Rate
- Driver for Micro-Mirrors, MEMS, Piezo-Elements and Advanced Electrophoresis

### Model 2350



Model 2340

### Model 2375



## High Current Precision Power Amplifier

MODEL 2348

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



## 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 tone



## 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



## Micro-ohmmeter and Bond Tester

MODELS R1L-B, R1L-BR

- Rugged: MIL PRF2880F Class 3 (R1L-BR)
- Low Cost: (R1L-B)
- Portable: Long Rechargeable Battery Life
- Ranges: 2m $\Omega$  to 20 $\Omega$
- Accuracy: 0.25% of reading
- Resolution: 1 $\mu\Omega$
- Simple Operation
- Offset Compensation
- NSN 6625-01-350-8774



## Soil Resistance Test System

MODEL R1L-C

- Rugged: MIL PRF2880F Class 2
- Simple: One Button Test, Auto Range
- Ranges: 2 $\Omega$  to 20k $\Omega$  (Auto and Manual)
- Accuracy: 1% of reading on 2 $\Omega$  range
- Resolution: 1m $\Omega$
- 2, 3 or 4 point measurements
- Offset Compensation
- Complete Accessory Kit Including SS Ground Rods
- NSN 6625-01-377-6166



## High Accuracy Micro-ohmmeter and RTD Monitor

MODEL R1L-D1

- Rugged: MIL PRF2880F Class 3
- Portable: Longest Rechargeable Battery Life (140 Hrs)
- Ranges: 200m $\Omega$  to 2k $\Omega$  (Auto and Manual)
- High Accuracy: 0.05% of reading
- Resolution: 1 $\mu\Omega$
- 2, 3 or 4 wire measurement
- Offset Compensation
- Back Lit Display
- NSN 6625-01-456-9125



## Intrinsically Safe Micro-ohmmeter and Bond Tester

MODEL R1L-E2

- Rugged: MIL PRF2880F Class 2
- Certifications: UL 913/CSA E79/CE/ATEX 94-9/ MIL 810E
- Portable: Long Battery Life (80 Hrs)
- Ranges: 2m $\Omega$  to 20 $\Omega$
- Accuracy: 0.25% of reading
- Resolution: 1 $\mu\Omega$
- Simple Operation
- Offset Compensation
- Back Lit Display
- NSN 6625-01-527-5543





## Automated Precision Ratio Transformer

MODEL PRT-73

- Ratio Range  $-0.001$  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



## 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  $+1.1111110$



## Decade Synchro / Resolver Standards and Bridges

MODELS DSRB-5CDA-4 / DSR5-5DA

- 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

## Ratio Transformer

MODEL RT-60B

- Resolution:  $10$  PPM
- Linearity:  $0.001\%$
- Bandwidth:  $50$  Hz to  $10$  KHz
- Ratio Range:  $0$  to  $+1.1111$
- Compact
- Lowest Cost



### 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



### 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



### 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



### 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



## 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



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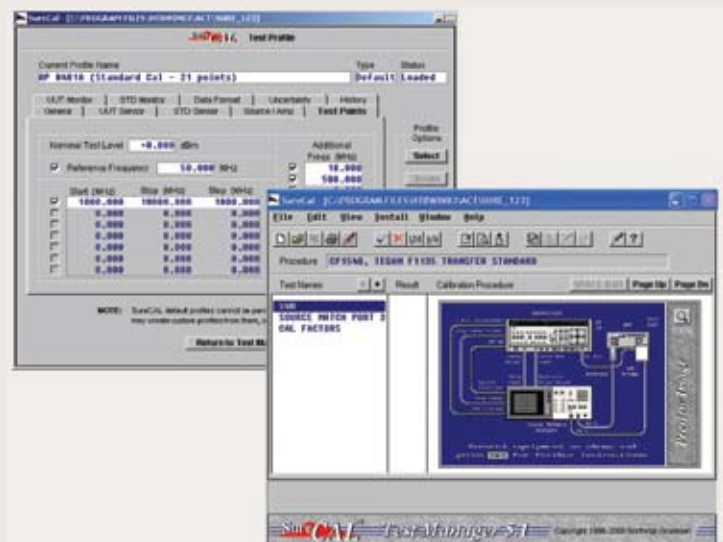
## SureCAL calibration software delivers both automation and confidence to RF power sensor calibration.

Correctly calibrating an RF power sensor is an involved process that requires numerous complex calculations of calibration factor, mismatch correction and uncertainty. SureCAL is successfully deployed by many organizations who are ISO 17025:2005 accredited. Combined with the fastest calibration available across the greatest number of different sensors, it is the only real option for those who need automation with sensors from multiple manufacturers.

### Calibration Software

MODEL SureCAL-PM

- Fully automated RF power sensor calibration
- VNA support for automated S11 parameter measurements
- 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 is fast and easy
- Dynamic Uncertainty Calculations



## RF Thermistor 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
- Universal compatibility with DC substitution thermistor sensors
- Directly reads calibrated RF power
- NSN 6625-01-566-7703



## Microwave Calibration Standard

MODEL 1510A

- Terminating Design
- Transfer calibration from NIST (or other NMI) to feedthrough standards with the lowest possible uncertainty from 10 MHz to 50 GHz
- Lowest uncertainty of any available CW absolute power sensor
- Temperature controlled for minimal response to ambient environment
- Thermistor bolometer design
- 0.01 to 25 mW power range



## Feedthrough RF Power Standards

MODELS F1130B / F1135B

- Provide lowest-uncertainty monitoring of RF power supplied to a Device Under Test
- F1130B, 100 kHz to 18 GHz, N connector
- F1135B, 10 MHz to 26.5 GHz, 3.5mm connector
- 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 F1130B  
(100 kHz to 18 GHz)

Model F1135B  
(10 MHz to 26.5 GHz)

## 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 (M1130A) or from 10 MHz to 26.5 GHz (M1135A)
- 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
- Height adjustable stand available



Model M1130A  
(100 kHz to 18 GHz)

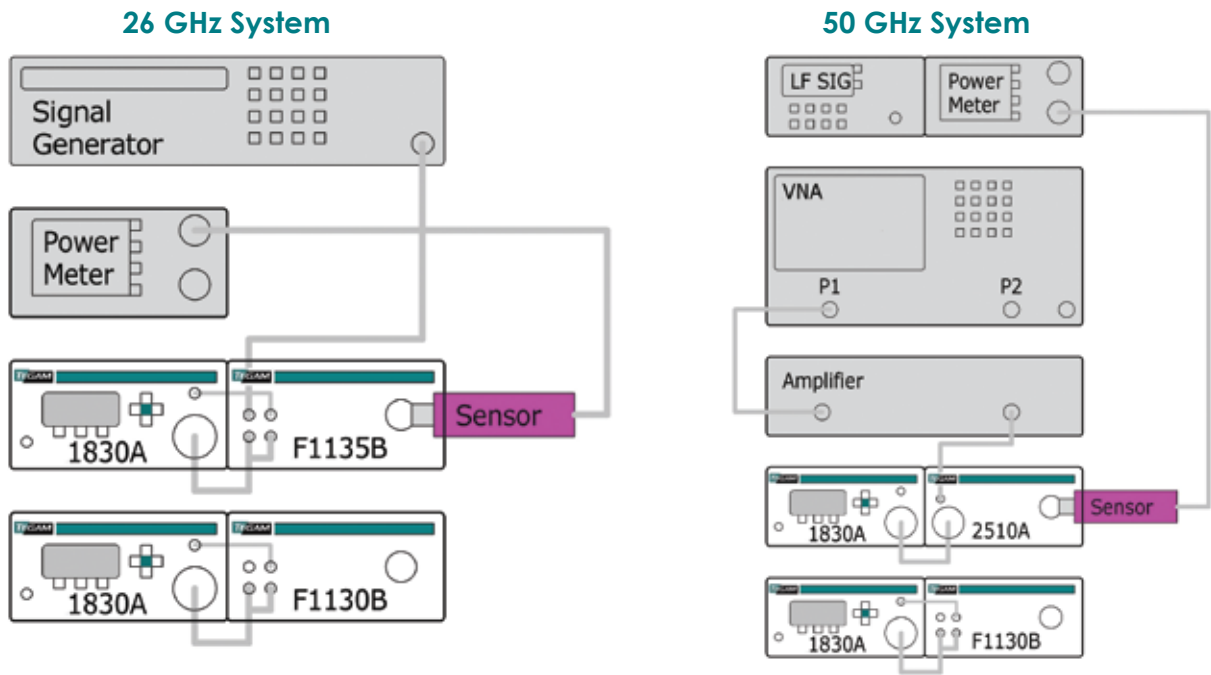


Model M1135A  
(10 MHz to 26.5 GHz)





# PM Series: The Leading RF Power Sensor Calibration System



Potential System Configurations

## PM Series Package Summary

Part Number	Description	PMX18-001	PMX18-002	PMX26-001	PMX50-001	PMX50-002	PMX50-003	PMX50-004	PMC18-001	PMC26-001	PMC50-001
<b>1830A</b>	RF Power Meter	•	•	••	•	•	••	••	•	•	•
<b>F1130B</b>	18 GHz Transfer	•	•	•			•	•			
<b>F1135B</b>	26.5 GHz Transfer			•							
<b>2510A</b>	50 GHz Transfer				•	•	•	•			
<b>M1130A</b>	18 GHz Standard								•		
<b>M1135A</b>	26.5 GHz Standard									•	
<b>1510A</b>	50 GHz Standard										•
<b>CA-7-48</b>	Cable, F/M mounts								•	•	
<b>CA-7-15</b>	Cable, F/M mounts	•	•	••			•	•			
<b>CA-10-48</b>	Cable, large heater								•	•	
<b>CA-11-48</b>	Cable, small heater										
<b>CA-11-15</b>	Cable, small heater	•	•	••			•	•			
<b>CA-21-48</b>	Cable, 15XX/25XX										•
<b>CA-21-15</b>	Cable, 15XX/25XX				•	•	•	•			
<b>CA-14-2M</b>	Cable, USB A/A 2M	•	•	••	•	•	••	••			
<b>PMX-SureCAL</b>	Automation Software	•		•	•		•				
<b>PMX-Training</b>	System Training	•		•	•		•				

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

MODEL 110A

- 1000 Volts AC and DC
- Single switch, single range
- Eliminates arc-flash potential during line clearing
- Tested to 2,500 Volts
- 1M of resistance in each test lead to limit current
- IEC 61010-1 Overvoltage Protection Category III, CE, CSA and UL approved
- Auto Power Off
- 1 year warranty (Made in USA)



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

MODEL 122

- Eliminates false readings when induced voltage is present
- Single-switch, single-range, AC/DC measurement to 750V
- Automatic, audible continuity tester
- Display lights and tone sounds when voltage is present
- Molded probes with retractable probe tip covers
- Dual-probe holder with positive lock probe extension for safe, easy two-handed operation
- Safety and Productivity at an affordable price
- 1 year warranty (Made in USA)



### Voltman™ True RMS Industrial Safety Voltmeter

MODEL 125

- Eliminates false readings when induced voltage is present
- Single-switch, single-range, AC/DC measurement to 750V
- Automatic continuity tester
- True RMS measurement
- Molded probes with retractable probe tip covers
- Dual-probe holder with positive lock probe extension for safe, easy two-handed operation
- Safety and Productivity at an affordable price
- 1 year warranty (Made in USA)



## 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



## 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



## General Purpose Temperature Calibrator

MODEL 847

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



## 2252 $\Omega$ Thermistor 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)



## 100 $\Omega$ Platinum RTD 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)



### 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)



### 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)



### 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)



### 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)



### 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)



### 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)



### 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)













## Specialty Food Probes

Model	Handle	Sensor	Description	Handle Length	Handle Diameter	Probe Length
87127	Compact	K	Probe, Hypodermic	4.00"	0.5"	3.75"
87527	Compact	T	Probe, Hypodermic	4.00"	0.5"	3.75"
86504	Ergonomic	Thermistor	Probe, Penetration	3.25"	1.5"	3.75"
87104	Ergonomic	K	Probe, Penetration	3.25"	1.5"	3.75"
87504	Ergonomic	T	Probe, Penetration	3.25"	1.5"	3.75"
86504-18	Ergonomic	Thermistor	Probe, Penetration	3.25"	1.5"	18.00"
87104-18	Ergonomic	K	Probe, Penetration	3.25"	1.5"	18.00"
87504-18	Ergonomic	T	Probe, Penetration	3.25"	1.5"	18.00"
86504-30	Ergonomic	Thermistor	Probe, Penetration	3.25"	1.5"	30.00"
87104-30	Ergonomic	K	Probe, Penetration	3.25"	1.5"	30.00"
87504-30	Ergonomic	T	Probe, Penetration	3.25"	1.5"	30.00"
86514-18	T	Thermistor	Probe, Penetration	5.00"	.5"	18.00"
87114-18	T	K	Probe, Penetration	5.00"	.5"	18.00"
87514-18	T	T	Probe, Penetration	5.00"	.5"	18.00"
86514-30	T	Thermistor	Probe, Penetration	5.00"	.5"	30.00"
87114-30	T	K	Probe, Penetration	5.00"	.5"	30.00"
87514-30	T	T	Probe, Penetration	5.00"	.5"	30.00"

## Standard Probes

Model Number		Temperature Range	Sensor Type	Applications
<b>8713</b> General Purpose Probe		1650 °F (900 °C)	Type-K	Liquids, gases, small surfaces
<b>8723</b> General Purpose Probe		1400 °F (760 °C)	Type-J	Liquids, gases, small surfaces
<b>8714A</b> Penetration Probe		1650 °F (900 °C)	Type-K	Meats, plastics, semi-soft materials
<b>8716</b> Air / Gas Probe		570 °F (300 °C)	Type-K	Hoods, ducts, and vents
<b>8666</b> Air / Gas Thermistor Probe		300 °F (150 °C)	2252Ω	Moving air or gas measurement
<b>8693</b> General Purpose RTD Probe		-328 °F to 1112 °F	100Ω	Gases, liquids, soft materials
<b>8695</b> RTD Surface Probe		-58 °F to 500 °F	100Ω	Industrial furnaces, grills
<b>8696</b> RTD Air / Gas Probe		-58 °F to 500 °F	100Ω	Air and gas measurement



## 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)



## 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)



## 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)



## 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)



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Kevin Kaufman  
Director of  
National Sales  
kkaufman@tegam.com



David Simerly  
Western Regional  
Sales Manager  
dsimerly@tegam.com



Kevin Zhang  
Country Manager,  
China  
kevin.zhang@tegam.com



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

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## 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

**TEGAM | CHINA**  
Rm317, E1 Yuanchenxin Building, 12 Yumin Road  
Chaoyang, Beijing, 100029  
**Telephone:** 8610-82250997, 82251181  
**Fax:** 8610-82251938  
**E-mail:** kevin.zhang@tegam.com



# AVM-2000 Nullmeter / Nanovoltmeter



Be certain.

## Model AVM-2000

- Sub PPM Voltage, Resistance and Temperature Calibration Transfers
- Range: 100 nV to 1000V
- Accuracy:
  - Analog Meter: 1%
  - Analog Output: 0.5%
- Resolution: 2 nV
- Independent I/V Zero per range
- Isolation: >100 G $\Omega$
- Rechargeable Battery Operation (50 Hrs)
- Floating Measurements to 1000V
- Selectable Input Impedance
- NSN 6625-01-548-0285



10 Tegam Way  
Geneva, Ohio 44041

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