



Advance Technical Systems

SHORT FORM CATALOGUE



9334A SERIES PRECISION AIR RESISTANCE STANDARDS

- Resistance Range : 100 $\mu\Omega$ to 100 G Ω
- Best Accuracy: <2 ppm
- Stability: < 2.5 ppm/Year
- Ultra Low temperature coefficient <0.2 ppm/ $^{\circ}$ C
- ISO/IEC 17025 Calibration Included



6622A SERIES DCC RESISTANCE BRIDGES

- Resistance Range available: 1 m Ω to 1 G Ω
- Accuracy available 0.1 to 0.015 ppm
- Temperature measurement Available
- Internal Voltages up to 1000V DC
- Wide Range of Ratios: 0.1:1 ~ 100:1
- Resolution: \pm 0.0001 ppm of Full Scale

9230A SERIES PRECISION DC CURRENT SHUNTS

- Series Ranges from 10 A to 3,000 A
- Accuracy as low as 100 ppm
- < 10 ppm Long Term Stability
- 3 Point Current Calibration Provided
- Air or Oil Cooled Applications
- Available Forced Convection Option Improves Power Dissipation
- Extremely Low Self-Heating Effects



6623A SERIES DCC RANGE EXTENDERS/CURRENT SOURCE Extend bridge measurement range to sub $\mu\Omega$ level

- Available in 150 A Increments to 4,000 A
- Output Current Stability < 10 ppm &
- Measures Resistance Down to 0.1 $\mu\Omega$
- Automatic Control from 6622A Series Bridge
- Ideal for Calibrating DC Power Supplies & DC Shunts



PRECISION 7340/7350 SERIES AC/DC SHUNTS

- AC/DC Difference Zero at Power Frequencies & < 10 ppm to 10 kHz
- Widest Available Bandwidth DC to 100 kHz
- Low Temperature Coefficients 2.5 ppm/ $^{\circ}$ C
- 7340 Series has 12 models from 1 mA to 100 A with Output Voltages from 0.2 to 1.0 V
- 7350 Series has 6 models with Currents 0.1 A to 25 A and Power up to 10 Watts



7810 TRANSCONDUCTANCE AMPLIFIER

- 100A Model
- Calibrated frequency DC to 100 kHz
- Uncalibrated 100 kHz to 2 MHz
- High 9V Voltage Compliance
- Unique Touch screen Interface
- Embedded Windows Computer
- Excellent Short Term Stability



PRECISION VOLTAGE SOURCE VS2010A

- DC Output Voltage: 0V to +10V or -10V to +10V, 10 μ V resolution
0V to +1V or -1V to +1V, 1 μ V resolution
- Accuracy of output voltage: better 1 μ V/V
- Stability: better than 2 μ V/V and typical 0.5 μ V/V per year
- Linearity: better 1 μ V/V



7520 PRECISION DC VOLTAGE DIVIDER

- Sub ppm ratio uncertainties with input voltages 1 to 1100 Volts
- Automated Self-Alignment without need of external standards
- Built in voltage reference and Null Detector
- Wide range of Ratios: 1:1, 1:10, 1:100, 1:1000 and reverse
- Color Screen Touch Menu Operation



9336/9337 SERIES HIGH VALUE RESISTANCE STANDARDS

- Resistance Range available: 10 MΩ to 10 PΩ
- Rated to 1000V with TC as low as 5 ppm /°C
- Stabilities as low as 10 ppm/year
- Nominal Initial Accuracy < 2 ppm



6530 PROGRAMMABLE DIGITAL TERAOHMMETER

- Resistance Range 100 kΩ to Over 10 PΩ
- Accuracy as low as 8 ppm and <20 ppm up to 200 GΩ
- Test Voltages 1 to 1000 Volt
- Optional DC Current Measurement Range 10 μA to 100 fA



6636 SERIES TEMPERATURE STABILIZED RESISTANCE STANDARDS

- Resistance Range available: 10 MΩ to 100 TΩ
- Temperature Coefficient as low as ± 0.2 ppm /°C
- Stabilities as low as < 6 ppm/year
- Internal PRT Stability: ± 0.02 °C /Year



6540 DUAL MEASUREMENT HIGH RESISTANCE BRIDGE

- Bridge and Direct Measurement Modes of Operation
- Resistance Range 100 kΩ to 20 PΩ
- "True Ratio" Provides Multi-Ratios from 1:1 up to 100:1
- Optional Current Measurement from 20 μA to 2 pA
- Test Voltages 1 to 1000 V



7330 SERIES OIL BASED & 7334 SERIES AIR BASED PRECISION RESISTANCE STANDARDS

- Resistance Range : 1 Ω to 10 kΩ
- Best Accuracy: <2 ppm
- Stability: < 2 ppm/Year
- Typical AC/DC Error < 1.0 ppm at 1 kHz



5600 SERIES VARIABLE TEMPERATURE FLUID BATHS

- 3 Tank Sizes: 75L, 100L & 300L
- Temperature Stability ±0.0015K with Oil! & ±0.001K with Water!
- Fluid Temperature Range 0 °C to 55 °C
- Designed for use with Oil, Salt Water, Water, and other Fluids
- Full Automation Via a Windows 10 Computer (USB, IEEE)

5032 VARIABLE TEMPERATURE AIR BATHS

- Temperature Stability better than 0.015 °C
- Temperature Range 15 °C to 50 °C
- Cooling Capacity up to 6 °C Below Ambient
- Large Volume Enclosure – Over 82 Liters!
- Enclosure is Fully EMI Shielded!
- Perfect for Checking TC of Precision Air Resistors



AUTOSAL LABORATORY SALINOMETER MODEL 8400B

- Accuracy < 0.002 Salinity
- Range 2 to 42 in Salinity
- Improved Temperature Stability
- Small Samples and Rapid Measurements
- Data Logging Standard
- Improved Maintainability



SRX/SRC SERIES ECONOMICAL & SRL PRECISION RESISTANCE STANDARD

- Wide range of values- 1mΩ to 10 TΩ
- Stability 10 ppm/Yr and 2 ppm/Yr for SRL Series
- TC as low as 1 ppm /°C & 0.4 ppm /°C for SRL Series
- ISO-17025 Accredited Calibration included
- Used by national measurement institutes across the world



PRS-330/370 PRECISION PROGRAMMABLE RESISTANCE BOX

- Resistance range: 0.1 Ω to 20 MΩ with a Resolution of 1 μΩ
- Lab grade accuracy (70 ppm + 1 mΩ)
- Comes standard with USB, Ethernet and IEEE interfaces
- If you already own, or are considering buying an 8.5 Digit DMM you should strongly consider the PRS-370 instead of the 330



HARS SERIES RESISTANCE DECADE BOX

- Resistance from 1 mΩ to 111 MΩ
- Available in double-power version: HARS-X2
- Wide choice: single through 11 decade units
- High accuracy : 0.01% (100 ppm) or 0.1% depending on model



RTD SERIES- PRECISION RTS SIMULATOR

- Resistance Range Available- 1mΩ to 10 kΩ
- Accuracy for Z Series: 0.005% (0.012 °C for PT 100)
- Resolution: 1 mΩ (0.0025 °C for PT 100)
- Stability 0.0002% for 24 hours; 0.001% for 12 months



HRRS-5 KV & 10 KV SERIES - HIGH RESISTANCE DECADE BOX

- Resistance from 10 Ω to 11 TΩ
- High-accuracy: up to .01%; 3 Accuracy Classes
- Max voltage of 5 kV or 10 kV; 2 Series
- Ideal for the calibration of meggers



MODEL 1888 MEGOHMMETER/HIGH RESISTANCE METER

- Measurement range from 1 kΩ to 100 TΩ
- 0.30% measurement accuracy with touch screen display
- Programmable test voltage from 1 to 1000 Vdc
- Standard GPIB, Ethernet, and USB interfaces



GENRAD 1404 SERIES PRIMARY STANDARD CAPACITORS

- Available in 10 pF, 100 pF, 1000 pF, 5000 pF, 10,000 pF
- 20 ppm/year stability
- Maximum Voltage 750V peak
- ISO-17025 accredited calibration Included



GENRAD 1409 SERIES STANDARD CAPACITOR

- Values 0.001 μF (1 nF) to 1000 μF
- Stability as good as ±0.01 %/year
- Two-to-five terminal configuration, depending on model
- Calibration accredited to ISO-17025 included



HACS-Z SERIES HIGH ACCURACY DECADE CAPACITANCE BOX

- Range from 1 pF to 11,111 μF
- High accuracy of 0.05% + 0.5 pF
- Units available with as few as 3 and as many as 11 decades
- Excellent Stability 100 ppm per year
- 3-Terminal shielded construction



GENRAD 1422 SERIES VARIABLE AIR CAPACITORS

- Range as low as 0.0002 pF and as high as 1150 pF
- Stability: better than 0.02% full scale per year
- Maximum Voltage 1000V peak
- Settable to 40 ppm



GENRAD 1482 SERIES INDUCTANCE STANDARD

- Stable within ±0.01% per year
- 18 Models values from 1 μH to 10 H
- Low, known temperature coefficient
- Calibration accredited to ISO-17025 included
- Toroidal - free from external fields



GENRAD 1491 D, G PRECISION DECADE INDUCTOR

- Most accurate decade inductor with accuracy's as good as 0.8%
- Inductance range from 1 mH or 100 μH to 11 H
- Maximum Voltage 500 vrms
- Sealed against moisture for long-term stability



Model 7660 PRECISION LCR METER

- Accuracy: 0.05%
- Frequency range: 10 Hz to 2 MHz
- Measures 14 impedance parameters (2 simultaneously)
- Display: 7.0" TFT with 800x480 color screen



LOM-510A MICRO-OHMMETER

- 1 μΩ resolution, 4½ digits
- Range: 1 μΩ - 200 Ω
- 0.02% basic accuracy
- 4-Wire Design to eliminate lead resistance

373 DEW POINT HYGROMETER

- High precision laboratory reference
- Measuring Range: -95°C to 95°C
- Accuracy: $\pm 0.1^\circ\text{C}$ Dew/Frost Point
- Reproducibility: $\pm 0.05^\circ\text{C}$ Dew/Frost Point
- Display: Active Matrix Color LCD
- Dual Mirror PRT's



DUET CHILLED MIRROR HYGROMETER

- Highly precise chilled mirror dew point technology
- Measuring Range : -60°C to +70 °C
- Accuracy : $\pm 0.1^\circ\text{C}$
- Reproducibility: $\pm 0.07^\circ\text{C}$
- User verifiable calibration



PT 12 HIGH PRECISION MULTI-CHANNEL THERMOMETER

- Temperature Range : -200 to 660 °C
- Accuracy : $\leq \pm 2 \text{ mK}$ @ 23 °C
- Resolution : 0.1 mK
- Twelve channel temperature measurement
- High precision, stability and repeatability
- Touchscreen user interface with graphing



973-SF6 ANALYZER

- Measuring Range : -50°C to 20 °C
- % Volume SF6: 80 to 100 %
- Accuracy: $\pm 0.5^\circ\text{C}$ Dew/Frost Point
- Optional SO2 measurement ppmv
- % Volume Sf6 Accuracy: 0.5%
- Gas containment system with automatic pump back without gas loss



MODEL 1220

AUTOMATED "TWO-PRESSURE" HUMIDITY GENERATOR

- 0.6% of Reading RH Uncertainty
- Relative Humidity Range: 10 to 98% RH
- Temperature Range : 5 to 60 °C
- Generate Multi Profile RH, DP, FP, PPM
- Test Chamber 8" x 8" x 8"
- Flow capability of 20L/ min
- Multi-Point Touch Display
- Window Door Option is Available



MODEL 2900

AUTOMATED "TWO-PRESSURE" HUMIDITY GENERATOR

- 0.5% of Reading RH Uncertainty
- Relative Humidity Range: 10 to 98% RH
- Temperature Range : -10 to 72 °C
- Generate Multi Profile RH, DP, FP, PPM
- Test Chamber 12" H x 12" W x 10" D
- Flow capability of 50L/ min
- Multi-Point Touch Display
- Window Door Option is Available



MODEL 3920

AUTOMATED "TWO-PRESSURE" LOW HUMIDITY GENERATOR

- Frost Point Temperature Range:-95 to 0.01 °C
- Dew Point Temperature Range:-50 to 10 °C
- Saturation Temperature Range : -80 to 12 °C
- Generate Multi Profile RH, DP, FP, PPM
- Based on NIST "Two-Pressure" Principle
- High Flow Capability of 10 L/min
- 10.1" Multi-point Touch LCD
- Added Keyboard Interface



QROMETRIC FPG DEW POINT CALIBRATOR

- Primary saturator humidity generator – fundamental precision
- Dew/Frost point Measurement Range : -100 to +10 °C
- Self-contained – no need for external services
- Three configurable probe ports – compatible with all types of dew point probe
- Generates a stable water vapour pressure within a closed loop.



HEITRONICS

Infrared Messtechnik

TRANSFER RADIATION THERMOMETER TRT SERIES

- Temperature Range : -50 to 1000 °C
- Temperature resolution (NETD) from approx. 20mK
- Uncertainty: approx 70mK coverage factor k=2 approx. 35mK using k=1 standard uncertainty
- High Quality Zinc Selenide lens with excellent Size of Source Effect (SSE) performance
- User friendly keyboard with display



BLACK BODY CALIBRATION SOURCE ME 30

- Temperature Range : -20 to 350 °C
- Aperture: $\varnothing 60\text{mm}$ (2.36")
- Cavity length: 300mm (11.8")
- Uncertainty: 0.15 °C...0.70 °C
- Cavity Source immersed in a liquid bath
- Liquid volume: 1.35 litres (0.4 gal)
- Excellent temperature uniformity





MULTIFUNCTION TEMPERATURE CALIBRATORS LCB SERIES

- Temperature range -40 ... 165°C / 30 ... 255°C
- Resolution: 0.1/0.01/ 0.001°C
- Stability: 0.01 °C, Accuracy: 0.1 °C
- All in one Dry Block and liquid bath 0.7 liters
- Immersion Depth: 190 mm, diameter 60 mm
- Uniformity: 0.03 °C



DRY WELL TEMPERATURE CALIBRATOR LHC 650 BASIC

- Temperature range +40 ... 650°C
- Resolution: 0.1°C
- Stability: 0.05 °C, Accuracy: 0.3 °C
- Compact design for on-site use
- Immersion Depth: 150 mm, diameter 28 mm
- Uniformity: 0.05 °C



PNEUMATIC PRESSURE TEST PUMP LMP 140



- Pneumatic hand pump pressure generator
- Pressure Range: -0.95....100/140 bar
- Resolution: 0.1 mbar, Medium : Air
- Connection: 3x M20x1.5 Female

PRECISION DIGITAL PRESSURE GAUGE IKA 300



- Best Accuracy: 0.025%, 9 units of engineering
- Pressure Range: 1..0 bar, 0...2500 bar
- Display: 6 digit with backlight
- Connection: 1/2 inch BSP Male, Battery life: 80 hours



VALHALLA
SCIENTIFIC

4300C PROGRAMMABLE MICRO-OHMMETER



- Measurement capability: Up to 20 kΩ across 18 ranges
- Resolution (lowest range): 100 nΩ
- Maximum test current: 10 A selectable
- Basic accuracy: ±0.06 on 10A ranges, others ±0.04

4314-KI WIDE-RANGE, ULTRA-SAFE DIGITAL IGNITER TESTER



- Measurement capability: 2-20MΩ,
- Resolution : 0.1mΩ, Reduced Current (8mA Max)
- Rechargeable Battery-Operated NiMH 10AH
- Safe for Explosive & Volatile Atmospheres

AccuMac
Technology Inc

ADDITEL 282 DUAL-CHANNEL REFERENCE THERMOMETER

- Temperature Range: -200 °C to 850 °C
- Accuracy to 0.006 °C at 0 °C
- RTD and TC Inputs
- Large Smartphone Like Touchscreen
- Rechargeable Lithium Battery
- Bluetooth & USB Communications
- Reference Level Accuracies



AM 1850/1860 METAL SHEATH SPRT



- Temperature Range: -200 °C to 670°C
- Repeatability : ±0.0015°C
- W(Ga) ≥ 1.11807, W(Hg) ≤ 0.844235
- Inconel™ sheath provides durability
- Nominal Resistance: 25.5 Ω or 100 Ω

For Further Details Please Contact



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