

Advance Technical Systems

SHORT FORM CATALOGUE





6640T AMS THERMOMETRY BRIDGES

Advanced Measurement Series of Temperature Bridges

- Resistance Range : 0.1Ω to $100 k\Omega$
- Best Accuracy: ± 0.020 ppm with 1 mA of current
- Measurement Rates as Fast as 2 Seconds
- Built-in Windows 10 computer and Touch Screen Display providing complete measurement results and Graphs

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









7330 SERIES TRUE AC/DC OIL RESISTANCE STANDARDS & 7334 SERIES TRUE AC/DC AIR RESISTANCE STANDARDS

- Typical AC/DC Error <1.0 ppm at 1kHz
- Stability < 2 ppm/year
- Temperature coefficient < 0.2 ppm/°C
- Resistance range from 1Ω to $10k\Omega$
- Normal Accuracy < 2 ppm
- ISO/IEC 17025 DC Calibration Included



9334A SERIES PRECISION AIR RESISTANCE STANDARDS

- Widest range available from $1 \mu\Omega$ to $100 G\Omega$ and custom values
- Ultra stable, <2.5 ppm/year
- Ultra low temperature coefficient < 0.2 ppm/°C
- 1 G Ω and 10 G Ω direct plug-in models to Wavetek 1271/1281, HP/Agilent 3458A and Fluke 8508A DMMs
- Nominal Initial Accuracy < 2 ppm



7520 PRECISION DC VOLTAGE DIVIDER

- Sub ppm ratio Uncertainties
- Automated Self-Alignment (i.e. Self Calibration)
- No External Standards required for Self-Alignment
- Built in voltage reference and Null Detector
- Wider voltages range from 1:1 to 1000:1 & Reverse
- Input voltage range from 1 to 1100 volts
- Color Screen Touch Menu Operation



7220 SERIES 3 PHASE POWER ANALYZER

- Input Current Ranges 5A and 125A
- 3-Phase Plus Neutral Measurements
- Power <50 ppm for 3/10 Second Aggregation!
- Able to Measure Any Signal Including Non-Sinusoidal and Quasi-Stationary



DECADE STANDARDS

9340 SERIES PRECISION DECADE RESISTANCE STANDARDS

- 2-terminal and 4-terminal models
- Widest resistance range available from 1 $\mu\Omega$ to 10 $T\Omega$
- Ideal for use as a precision RTD simulator or working standard
- Best accuracy 0.01% with low zero resistance, excellent stability 10 ppm/year
- Very low temperature coefficients as low as 5 ppm/°C
- 3 to 7 dial styles, 55 standard models





6634A SERIES TEMPERATURE STABILIZED RESISTANCE STANDARDS

- Up to 10 elements, range 0.1 Ω to 100 M Ω
- Outstanding stability, < 2 ppm/year
- Ultra low temperature coefficients(t/c), ± 0.005 ppm/°C
- Internal PRT sensor for temperature monitoring
- Internal PRT stability: ± 0.05°C/Year
- Thermometry Resistance value available

6622A SERIES DCC RESISTANCE BRIDGES

- Resistance Range available: $1 \text{ m}\Omega$ to $1 \text{ G}\Omega$
- 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: ±0.0001 ppm of Full Scale



6622A-T TEMPERATURE BRIDGE

- Wide Range From 0.1 Ω~100 kΩ, Supporting a Wide Variety of SPRT's, PRT's, and RTD's
- Accuracy available 0.025 mK to 0.013 mK
- Built in Temperature Conversion for ITS-90 and IPTS-68
- Wide Range of Ratios: 0.1:1~100:1
- Resolution: ±0.1 ppb of Full Scale





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

- Available in 150 A Increments to 10,000 A
- Output Current Stability Typically < 10 ppm for 1000 A and Higher
- Measures Resistances Down to $0.1 \,\mu\Omega$
- Extender and Precision DC Source
- Automatic Control from 6622A Series Bridge
- Ideal for Calibrating DC Power Supplies & DC Shunts





6625 RESISTANCE AND CURRENT MEASUREMENT SYSTEM

- Range from 1 $\mu\Omega$ ~1 G Ω with Internal Voltages to 1 kVdc
- Wide Range of Ratios: 0.1:1 ~ 100:1, and Up to 2,000,000:1
- Accuracy available 0.1 to 0.02 ppm
- Customizable configuration including working standards, scanners, a DCC Bridge and range extenders 3A to 10,000 A
- Suitable for calibating Resistance standards, DC Shunts, calibrators, DMMs, Decade Boxes and many more











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

9336/9337 SERIES HIGH VALUE RESISTANCE STANDARDS

- Resistance Range available: $10 \,\text{M}\Omega$ to $10 \,\text{P}\Omega$
- 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 k Ω to Over 10 P Ω
- Accuracy as low as 8 ppm and <20 ppm up to 200 G Ω
- Test Voltages 1 to 1000 Volt
- Optional DC Current Measurement Range 10 μA to 100 fA
- Optional Surface and Volume Resistivity Measurements
- Four different models with different range and uncertainty



6540 DUAL MEASUREMENT HIGH RESISTANCE BRIDGE

- Bridge and Direct Measurement Modes of Operation
- Resistance Range $100 \, k\Omega$ to $20 \, P\Omega$
- "True Ratio" Provides Multi-Ratios from 1:1 up to 100:1
- Optional Current Measurement from 20 µA to 2 pA
- Optional Surface and Volume Resistivity Measurements
- Test Voltages 1 to 1000 V

5031/5032 VARIABLE TEMPERATURE AIR BATH

- Excellent Temperature Stability, Better Than 0.015 °C over 24 Hours
- Includes Separate PRT to Report the True Temperature Inside Bath
- Temperature Range 15 ℃ to 50 ℃
- Cooling Capacity up to 6 °C Below Ambient
- Large Volume Enclosure Over 82 Liters!
- Enclosure is Fully EMI Shielded!
- Perfect for Checking Temperature
 Coefficients of Precision Air Resistors



5600 SERIES VARIABLE TEMPERATURE FLUID BATHS

- Available Sizes-50L, 75L, 100L & 300L
- Temperature Stability: ±0.001K with Water and ±0.0015K with Oil
- Range: -5°C to 55°C
- Full automation Via Windows 10 Tablet (USB, IEEE)
- Designed for use with Oil, Water, Salt Water, Alcohol, Glycol and other Fluid
 - 2nd probe included to report actual temperature anywhere in the bath







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



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/°C
- 7340 Series Provides 12 Current Values from 1 mA to 100 A with Output Voltages from 0.2 to 1.0 V
- 7350 Series Provides 6 Ohmic Values with Currents 0.1 A to 25 A and Power up to 10 Watts



AUTOSAL LABORATORY SALINOMETER MODEL 8400B

- Accuracy < 0.002 Salinity
- Range 2 to 42 in Salinity
- Improved temperature stability
- No temperature compensation required
- Small samples & rapid measurements
- Data logging standard
- Improved maintainability



PORTASAL SALINOMETER MODEL 8410A

- Accuracy < 0.003 Salinity
- Completely Portable with Laboratory Accuracy
- Small 100 ml Samples and Rapid Measurements
- Direct Calculation of Salinity
- Easy to Set Up and Operate
- Microprocessor Controlled with RS-232 and IEEE





SRX/SRC SERIES ECONOMICAL & SRL PRECISION RESISTANCE STANDARD

- Wide range of values- $1m\Omega$ to $10T\Omega$
- 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



PRS-330/PRS-370 PRECISION PROGRAMMABLE RESISTANCE DECADE

- Resistance Range: 0.1Ω to $20 M\Omega$
- Self Calibrating Programmable Source
- Precision lab grade accuracy 70 ppm + 1 m Ω
- Resolution: 1μΩ



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 RTD SIMULATOR

- \bullet Resistance Range Available- $1m\Omega$ to $10\,k\Omega$
- 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



HARS-LX SERIES DECADE RESISTANCE SUBSTITUTER LAB STANDARD

- High accuracy as good as 20 ppm
- High stability as good as 5 ppm/yr
- Resistance from $1 \, \text{m} \Omega$ to $121.1 \, \text{M} \Omega$
- Resolution 1 m Ω with a fixed decade or 20 $\mu\Omega$ with a rheostat



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



HRRS SERIES HIGH RESISTANCE DECADE BOX

- Resistance from 100 Ω to 100 $G\Omega$
- High-accuracy: up to .01%, 3 Accuracy Classes Available
- Voltage up to 2000 V
- Excellent TC: as low as 5 ppm/°C



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



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

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



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



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 1491 D, G PRECISION DECADE INDUCTOR

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

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



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





Model 7660 PRECISION LCR METER

- Accuracy 0.05% & display 7.0" TFT, 800×480 color screen
- Frequency range: 10 Hz to 2 MHZ
- Measures 14 impedance parameters (2 simultaneously)



MODEL 1888 MEGOHMMETER/HIGH RESISTANCE METER

- \bullet Measurements from 1 k Ω to 100 T Ω
- 0.30% measurement accuracy with touch screen display
- $\bullet \ \ Programmable \ test \ voltage \ from \ 1 \ to \ 1000 \ Vdc$



1693 RLC DIGIBRIDGE / HIGH-ACCURACY IMPEDANCE BRIDGE

- 0.02% measurement accuracy for R,L,C,G,Z & Y
- Programmable frequency 12 Hz 200 kHz with 0.01% accuracy
- 11 Impedance parameters
- A full, five-digit LED display for RLC; four-digit readout for D and Q



MODEL 1910/1920 PRECISION LCR METERS

- 20 measurement parameters
- Frequency range: 20 Hz to 1 MHz
- Basic measurement accuracy: 0.1%
- Measurement speeds up to 40/sec



373 DEW POINT HYGROMETER

- High precision laboratory reference
- Measuring Range: -95°C to 95°C
- Accuracy: ±0.1°C Dew/Frost Point
- Reproducibility: ±0.05°C Dew/Frost Point
- Display: Active Matrix Color LCD
- **Dual Mirror PRT's**

473 DEW POINT HYGROMETER

- Highly precise chilled mirror dew point technology
- Measuring Range: -20 to +70 °C
- Accuracy:≤±0.1°C
- Reproducibility: ≤±0.07 °C
- User verifiable calibration



PT 12 High Precision Multi-Channel Thermometer System

- Temperature Range: -200 to 660 °C
- Accuracy:≤±2mK@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: ± 0.5°C Dew/ Frost Point
- Optional SO2 measurement ppmv
- % Volume SF6 Accuracy: 0.5%
- Gas containment system with automatic pump back, No gas loss



Model 1220 Automated "Two-Pressure" Humidity Generation System

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



Model 2500 Benchtop/Mobile "Two-Pressure" Humidity Generator

- 0.5% of Reading RH Uncertainty
- Relative Humidity Range: 10 to 95% RH
- Temperature Range: 0 to 70 °C
- 2500 ControLog® Automation Software
- Test Chamber 15" H x 15" W x 12" D
- Flow capability of 20L/min
- 2500 ControLog® Automation Software
- Window Door Option is Available



Model 3920

"Two-Pressure Two-Temperature" Low Humidity Generator

- Generate: %RH, FP, DP, PPM
- Based on NIST Proven Two-Pressure Principle
- High Flow Capability of 10 L/min
- Multi-point Touch LCD
- Relative Humidity Range: 0.00003% to ~50%
- Calculated Real-time Uncertainty
- HumiCalc with Uncertainty Mathematical Engine
- ControlLog Embedded Automation Software



- Relative Humidity Range: 10 to 98%
- Temperature Range: -10 to 72°C
- HumiCalc® with Uncertainty Software
- ControlLog Automation Software
- Generate: RH, DP, FP, PPM, Multipoint **Profiles**
- High Flow Capability of 50 L/min
- Multi-point Touch LCD
- Traceable to NIST & based on NIST





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



TEMPERATURE CALIBRATOR DRY BLOCK LBB 90

- Temperature range +30 ... 70°C with Accuracy 0.3°C
- Resolution: 0.1/0.01°C, Stability: ±0.03°C
- Black body diameter 57 mm
- Emissivity: 0.96 ± 0.02



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 M20 x1.5 Female
- Pressure relieve and fine adjustment valves



PNEUMATIC PRESSURE CONTROLLER LPG 400

- Best Accuracy: 0.02%
- Pressure Range: relative 0 to 210 bar, absolute 0-50 bar
- Screen Resolution: 6 digits
- Connection: G 1/8 inch female

PRECISION DIGITAL PRESSURE GAUGE IKA 300

- Best Accuracy: 0.025%
- Pressure Range: 1..0 bar, 0...2500 bar
- Display: 6 digit with backlight
- Connection: 1/2 inch BSP Male
- 9 units of engineering
- 7.4V lithium Battery, Battery life: 80 hours



Accu**Mac**



AM 8060 PRECISION THERMOMETER

- Temperature Range: -260 °C to 850 °C
- Accuracy up to ±0.008°C
- Resolution: 0.001°C
- Dual Channels



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



Advance Technical Systems Pvt. Ltd.

305, Pankaj Tower, Plot No.6, L.S.C., Mayur Vihar-I, Delhi-110091

Phone: +91-9310174458/011-42785888 e-mail: sales@atspltd.com/info@atspltd.com

Website: www.atspltd.com

(Detailed catalogue will be provided on request)