

Features 4700 : 概要/仕様

- Calibrates Hipot testers, HV power supplies and insulation testers
- Measures up to 10KV directly and 35, 70, 100 or 150KV with HV Smartprobes
- Basic accuracy—0.03% DC and 0.1% true RMS AC
- Color touch screen—makes for easy measurement selection and display
- Ethernet, serial, USB printer port all standard, GPIB optional
- Simultaneous AC and DC voltage readings
- Chart Mode provides graphic documentation of HV drift, ramp time, overshoot and sag
- Dual inputs allows Differential or Phase-to-Phase voltage measurement
- High speed DSP provides up to 60 filtered readings per second
- True RMS AC measurement from 0.01Hz to 600Hz—covering VLF to aviation frequencies
- AC noise rejection 78dB—for rock solid, six digit DC Measurements
- Optional battery pack goes up to 11 hours between charges
- G Series—high input impedance probes for electrostatic applications
- CE mark Certified to EN61010
- Available ISO 17025 accredited calibration
- Three year extended warranty (one year standard warranty)

ハイポットテスタ、HV電源、絶縁テスタの校正に最適

直接入力10KV
Smart*プローブ入でMax140KV
*校正data付きで連携計測可

基本精度 : DC0.03% AC0.1%
HVでは業界最高精度
カラータッチスクリーンで快適操作

イーサネット、RS232、GPIB(option)
USBプリンタでプログラム自動計測可

AC,DC同時表示

チャート/グラフィック表示でドリフト、変動、オーバーシュート、サグ/傾斜等表示

同一プローブ2本使用で差動計測、Phase/phase計測可能

高速DSPで60回/秒処理

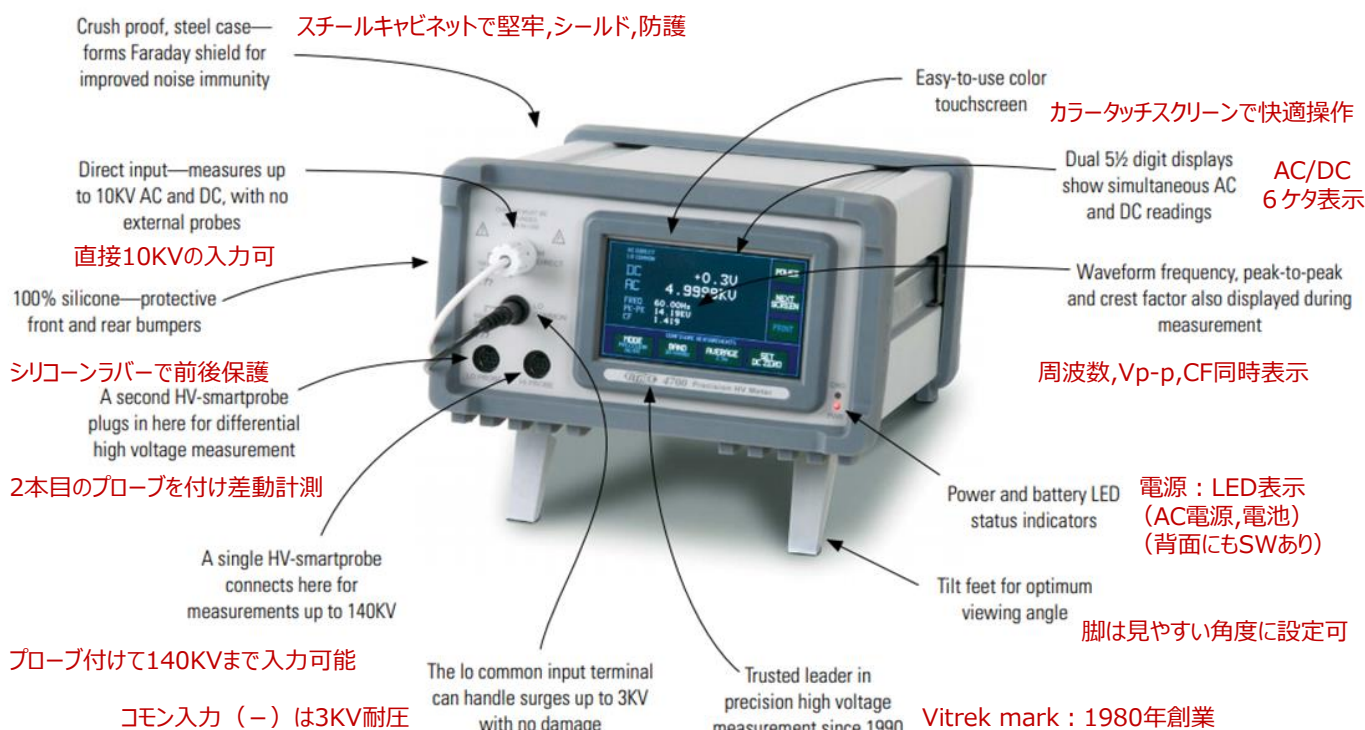
真の実効値で0.01hz~600hz計測
医療系~航空機系の計測まで適合

78dBノイズ除去
でDC6ケタ表示

内蔵電池駆動11時間(option)
AC100V用 : ACアダプタ添付

G型プローブで20~30GΩ
入力(静電気計測用)
CE/EN61010適合
ISO/IEC17025適合

3年間保証可(option)
標準は1年間



4700 Performance Specifications

Maximum Voltage Measurement (Input Impedance)

Direct Input Terminal.....	10KVDC, 10KVACrms (110 Meg ohms)
HVL/P-35 Probe.....	35KVDC, 30KVACrms (200 Meg ohms)
HVL-35G Probe.....	35KVDC (10 Gig ohms)
HVL-70 Probe.....	70KVDC, 50KVACrms (400 Meg ohms)
HVL-70G Probe.....	70KVDC (20 Gig ohms)
HVL-100 Probe.....	100KVDC, 75KVACrms (600 Meg ohms)
HVL-100G Probe.....	100KVDC (30 Gig ohms)
HVL-150 Probe.....	140KVDC, 100KVACrms (1 Gig ohm)

DC Voltage Measurement Accuracy (Resolution)

Direct Input Terminal.....	0.03% of reading + 0.03V (10mV)
HVL/P-35 Probe.....	0.035% of reading + 0.07V (100mV)
HVL-35G Probe.....	0.25% of reading + 1.5V (1V)
HVL-70 Probe.....	0.04% of reading + 0.2V (1V)
HVL-70G Probe.....	0.35% of reading + 3.5V (1V)
HVL-100 Probe.....	0.05% of reading + 0.3V (1V)
HVL-100G Probe.....	0.5% of reading + 15 (10V)
HVL-150 Probe.....	0.08% of reading + 0.7V (10V)

AC Voltage Measurement Accuracy (Resolution)

Direct Input Terminal.....	0.12% of reading + 0.1V (10mV)
HVL/P-35 Probe.....	0.1% of reading + 0.2V (100mV)
HVL-70 Probe.....	0.1% of reading + 0.4V (1V)
HVL-100 Probe.....	0.1% of reading + 0.6V (1V)
HVL-150 Probe.....	0.5% of reading + 1V (10V)

High Voltage Self Heating Effect

Direct Input Terminal.....	1.5 ppm of reading per KV ²
HVL/P-35 Probe.....	0.4 ppm of reading per KV ²
HVL-70 Probe.....	0.14 ppm of reading per KV
HVL-100 Probe.....	0.14 ppm of reading per KV ²
HVL-150 Probe.....	0.2 ppm of reading per KV ²

BP-47バッテリー駆動をご検討の場合：
本体と一緒のご注文が最適です
後付け可能ですが、リチウム電池の
輸入/航空機輸送は、危険物対象となり
困難な場合があります
(別途、バッテリーとチャージャーを国内購入でも可)

ご注文：4700本体、オプションのプロブ、バッテリー等

Ordering Information

4700	Precision High Voltage Meter
BP-47	Internal 11 Hour Battery Pack
GP-47	GPIB (IEEE-488) Interface
HC-47	Hard Carrying Case
RM-47	Rack Mount Kit
HVP-35	35KV Handheld Probe
HVL-35	35KV Bench Top Lab Probe
HVL-70	70KV Bench Top Lab Probe
HVL-100	100KV Bench Top Lab Probe
HVL-150	150KV Bench Top Lab Probe
HVL-35G	35KV High Impedance Lab Probe
HVL-70G	70KV High Impedance Lab Probe
HVL-100G	100KV High Impedance Lab Probe
TL-47	Replacement Test Lead kit

General Specifications

AC/DC Voltage Measurement Resolution:
Selectable 4, 5 or 6 digits
Measurement Functions: DC Voltage, True
RMS AC Voltage, Ripple, Peak to Peak, Crest
Factor & Frequency Measurement (4 digits
0.01 Hz to 600Hz)
Measurement Time: Selectable down to
16mS (60 readings per sec.)
Maximum Input to Common Terminal: 3 KV
Peak for 1 sec, no damage
Accuracy Specifications: Valid one year ± 5C
from Cal temperature

Environmental/Physical

Operating Environment 0 to 50C, <85% RH
(non-condensing)
Dimensions 218mm (8.5") wide x 130mm (5")
high x 253mm (10") deep, nominally
Weight 2.4kg max (4kg shipping)

Power

AC Source 45 to 450Hz, 100 to 265Vrms at
<15W (20VA) using supplied external power
supply
DC Source 11 to 16Vdc at <1.2A, using a
center positive 2.5mm DC power connector
BP-47 Battery Option Up to 11hrs continuous
operation

Standard Accessories

The 4700 and probes are shipped with an ISO
17025 cal cert with data and uncertainties,
direct input test leads, chassis ground lead,
operator's manual, and external power
supply. The HVP handheld probes comes with
a detachable probe tip and the HVL series
probes ship come with a toroid corona shield.

Warranty

Three year extended parts and labor warranty
with no charge registration and annual
factory calibration. One year standard
warranty.

標準保証期間：納品後1ケ年間
(3年間の校正・修理含延長
オプションもあります)

標準付属品：ISO17025 校正証書、
テスト結果報告書 (不確かさ含)
AC電源アダプタ、テストリード、アースリード

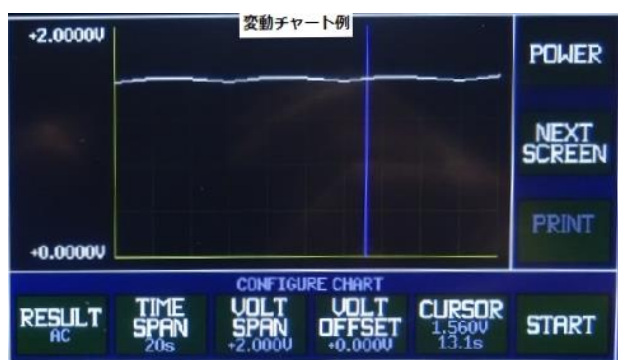


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ユニーク & 計測ソリューション

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Vitrek Product Lines

Vitrek Corporation is an accredited
ISO 17025 Calibration Laboratory



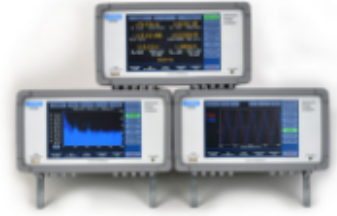
95X Series Electrical Safety / Hipot Testers

Demanding applications call for the high power, high resolution **95X Series Hipot & Ground Bond Testers**. With up to 200mA of Hipot source current – the 95X has plenty of power. Choose from up to 6, 10 or 30KVAC and up to 6.5, 11 or 15KVDC. Ground Bond models source up to 40 Amps and all models offer Tera-ohm class IR and a variety of interfaces.



V7X Series Electrical Safety / Hipot Testers

The Compact & Economical **V7X Series Electrical Safety Testers** with Easy-to-Use color touch screen set the standard for price/performance ratio. Choose from six V7X electrical safety tester models offering AC/DC Hipot to 5KV, IR to 450 Gig ohms, Ground Bond up to 30 amps, Continuity and Built-in HV Switching. USB, RS232, Digital I/O and HV Scanner control port all come standard.



Power Analyzers

Introducing the Vitrek family of **PA9xx Precision Harmonic Power Analyzers**, refreshingly easy-to-use high performance power analyzers that won't break your budget. With a variety of options to choose from, Vitrek's power analyzers deliver multi-channel, high-accuracy, wideband performance – to tackle the toughest energy measurement applications.



High Voltage Measurement

The Vitrek **4700 Precision High Voltage Meter** offers the highest level of measurement accuracy, yet with its color touch screen – is surprisingly easy to use. The 4700 measures up to 10KV DC or rms AC directly and with available HV smartprobes, the measurement range can be extended to 35KV, 70KV, 100KV and 150KV.



High Voltage Switching

The Vitrek **964i** is the perfect solution for automated test systems including Multi-Conductor, Multi-Point Hipot Testing. Manual Hipot Testing on multi-point devices is error prone, labor intensive and operator hazardous. The 964i on the other hand, is purpose built to fully automate all of your HV switching needs. Let Vitrek build a 964i to satisfy your HV test system automation requirements.



Insulation Resistance (IR) Testing

In a never ending race for higher efficiency, electric vehicles and solar panel arrays are now operating with voltage rails up to 2.5 KV. This is no place for a 1 KV tester, it's time to step up to a Vitrek 98xi!

Built upon the same DSP technology that has established Vitrek as a leader in hipot test systems, the 98xi devices feature a unique combination of performance features including **Multi-dwell Functionality, High-speed Testing, Pico-Amp Leakage Measurement, Continuously Variable IR Test Voltage, Multi-mode IR and Capacitance Test Modes.**



Xitron Products

XITRON by Vitrek is Proud to Announce the Acquisition of **XITRON Technologies** Brand & Product Lines

- Precision Power Analyzers
- Portable Power Quality Analyzer
- Portable Calibration Instrumentation
- Ballast Test Components & Systems
- Micro-Spectrometer
- Programmable DC Electronic Load
- Digital Milliohmometer
- Phase Angle Voltmeters

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