

vPad-ES™ Rugged

Designed for the Toughest Environments

Built on the Vision Pad Platform, the vPad-ES Rugged is the ideal Electrical Safety Analyzer for Field Service Engineers.

Housed in an Extreme Duty case, the vPad-ES Rugged offers the functionality and scalability that you have come to expect from Vision Pad Technology products plus the added assurance of knowing your system will be protected in the harshest of environments.

Key Features:

- Built into a Crush Proof case that complies with ATA 300 Impact Test Standard
- Padlockable Powerclaw™ latching system with soft grip foldable handle
- Hi-resolution Graphical User Interface
- Built in Wireless communication enables transfer of data from remote sites to corporate CMMS systems
- Bluetooth connectivity for transfer of data to and from local devices
- Testing carried out to:
 - ANSI / AAMI ES1
 - IEC60601-1
 - NFPA 99-2012
 - IEC62353
- Can be upgraded from a basic manual tester to full automation with CMMS connectivity by purchasing Apps
- Can be configured to retrieve test data from non-Datrend Devices



Innovation by design



vPad-ES™ Rugged - Performance Specifications

Display: 10.1" colour LCD (1280 x 800)

User Controls: Capacitive touchscreen

Wired Connectivity: Micro USB 2.0 Type B (shareable with base unit)
XBUS Port (RJ11-6)
USB 2.0 Type A (host) - optional

Wireless Connectivity: 802.11 b/g/n
Bluetooth 2.1+ EDR

Modes of Operation: Manual (standard)
Automatic (accessory option)

Power:

120 Volt power outlet: 90 to 132 V ac rms,
47 to 63 Hz, 20 A max.

230 Volt power outlet: 180 to 264 V ac rms,
47 to 63 Hz, 16 A max.

Weight: 7.0 lb (3.2 kg)

Size:

Case: 14.3 x 11.1 x 4.7 in.
(36 x 28 x 12 cm)

Tablet PC (detachable): 10.5 x 6.7 x 0.5 in.
(27 x 17 x 1.3 cm)

Test Standard Selections: ANSI/AAMI ES-1
IEC60601-1
NFPA99-21012
IEC 62353

Voltage:

Mains voltage:

Range: 90 to 264 V rms
Accuracy: $\pm(2\% \text{ of reading} + 0.2 \text{ V})$

External (point-to-point) voltage:

Range: 0 to 300 V rms
Accuracy: $\pm(1\% \text{ FS} + 0.2 \text{ V})$

External (point-to-point) micropotential:

Ranges: 0 to 199.9 mV rms
200 to 1,999 mV rms
2000 to 19,999 mV rms
Accuracy: $\pm(1\% \text{ of reading} + 1 \text{ mV})$

Ground Resistance:

Method: Four-terminal, fully isolated
Test Current: 1A pulsed, 0.2A rms
Range: 0.000 to 2.000 Ω
Accuracy: $\pm(1\% \text{ of reading} + 0.02 \Omega)$

All specifications subject to change without notice.

Equipment Current:

Ranges: 0 to 1.999 A ac rms
2.00 to 19.99 A ac rms

Accuracy: $\pm(2\% \text{ reading} + 0.2A)$

Duty cycle: 0 A to 10 A, continuous
10 A to 15 A, 7 min. on/3 min. off
15A to 20 A, 5 min. on/5 min. off

Equipment Power:

Range: 0 to 2400 watts
Accuracy: $\pm(5\% \text{ reading} + 5W)$

Chassis and Lead Leakage Current:

Modes: AC+DC (True-rms)
AC only
DC only

Patient Load Selection: AAMI ES1-1993
IEC 60601

Crest factor: ≤ 3

Ranges: 0.0 to 199.9 μA
200 to 1,999 μA
2000 to 19,999 μA

Accuracy:

DC to 1 kHz $\pm(1\% \text{ of reading} + 1\mu\text{A})$
1 to 100 kHz $\pm(2\% \text{ of reading} + 1\mu\text{A})$
100 kHz to 1 MHz $\pm(5\% \text{ of reading} + 1\mu\text{A})$

Isolation test voltage: 100% $\pm 5\%$ of AC supply

Calibration Test Points:

Resistance: $1 \pm 0.01 \Omega$
Current: $100 \pm 1 \mu\text{A}$

ECG Performance Waveforms:

Output:

Amplitude 1 mV QRS into Lead II
Impedance 500 ohms

Accuracy:

Frequency $\pm 1\%$
Amplitude $\pm 2\%$

Waveforms:

ECG Complex 30, 60, 120, 180, 240 and 300 BPM
Square wave 0.125 Hz, 2 Hz and 1 kHz
Pulse wave 63 msec, 30PPM and 60PPM
Triangle wave 2 Hz
Sine wave 0.5, 10, 40, 50, 60 and 100 Hz
CMRR tests SQR 2Hz & 1KHz, PUL 4s, SIN 0.5, 50 & 60Hz
Arrythmias VFIB, AFIB, SVT, VTACH, PVC, and ASYS



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