

Product Datasheet - Technical Specifications



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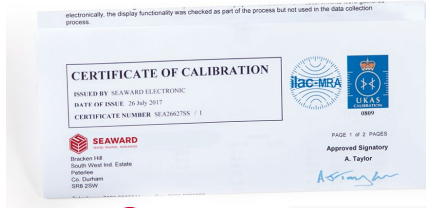
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GETTING TO KNOW YOUR INSTRUMENT



1. Test Terminals
2. Screen
3. Function Keys F1 - F5
4. Keyboard
5. Power Off / Stop Key
6. Power On / Start Key
7. Arrow Keys
8. EUT Socket
9. IEC Inlet
10. Probe Socket 1
11. Mains Inlet / Probe Socket 2
12. USB B Port for PC Connection
13. USB Flash Drive Port for Data Backup
14. Flash
15. Camera
16. Battery Compartment

WHAT'S IN THE BOX?



- | | | |
|-----|---|-------------------|
| 1. | Apollo 600+ Instrument | x 1 |
| 2. | Professional Carry Case | x 1, not pictured |
| 3. | Test Lead 1.2m with Alligator Clip, Red | x 1 |
| 4. | Test Lead 1.2m with Alligator Clip, Black | x 1 |
| 5. | IEC Extension Lead, 0.5m | x 1, not pictured |
| 6. | Mains Lead | x 1, not pictured |
| 7. | USB Download Lead | x 1 |
| 8. | Apollo Checkbox | x 1 |
| 9. | Calibration Certificate | x 1 |
| 10. | Quick Start Guide | x 1 |
| 11. | CE declaration | x 1, not pictured |

TECHNICAL DATA

General

Dimensions W × H × L	150 × 100 × 230 mm
Weight	1.5 kg
Internal memory	Up to 50,000 records and 2,000 photos
Protective system according to IEC60529	IP40
Power supply	Mains or instrument-internal rechargeable battery
Measuring category	300 V / CAT II

Environmental Conditions

The Apollo has been designed to perform tests and measurements in a dry environment.

Maximum barometric elevation	2000 m
Pollution degree according to IEC 60529	2
Operating temperature	0 ... 40 ° C
Operating relative humidity	30 % ... 50 %, without moisture condensation
Ambient conditions	Indoor use Not intended for use in wet environment

Electromagnetic compatibility (EMC)

Electromagnetic compatibility (EMC)	Interference immunity and emitted interference conforming to IEC 61326-1
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TECHNICAL DATA

Wi-Fi and Bluetooth dual-mode (BR/EDR and low energy)

Parameter	Wi-Fi	Bluetooth (BR/EDR)	Bluetooth (Low Energy)
Frequency Band of Operation	2.400 GHz ... 2.4835 GHz		
Supported Modes	802.11 b/g/n	Bluetooth v4.2 + EDR	Bluetooth v4.2
Typical Radiated Output (Transmit) Power	18 dBm EIRP	8 dBm EIRP	8 dBm EIRP
Maximum Radiated Output (Transmit) Power	<20 dBm EIRP	<10 dBm EIRP	<10 dBm EIRP
Radio Spectrum Efficiency (Article 3.2)	ETSI EN 300 328 V2.2.2		
Usage	Transfer of test data	Connection to peripherals such as scanners and printers	

Characteristic Values

Protective Conductor Resistance (Rpe)

Output Current (Load 2 Ω)	± 200 mA _{DC} with ZAP
Test Voltage (o/c) :	$> 4 V_{DC}$
Display Range:	0.01 Ω ... 19.99 Ω
Measurement Range:	0.05 Ω ... 19.99 Ω
Resolution:	0.01 Ω
Operating Error:	± 5 % + 4 counts
Number of tests as per IEC 61557-4 (in case of battery operation)::	approx. 1,500

Insulation Test (Riso)

Nominal Voltages:	500 V and 250 V _{DC}
Test Current:	1 mA minimum for a load of 1 kOhm/volt, <2 mA into s/c
Test Voltage Accuracy:	+20 %, -0 %
Display Range:	0.00 M Ω ... 19.99 M Ω
Measurement Range:	0.10 M Ω ... 19.99 M Ω
Resolution:	0.01 M Ω
Operating Error:	± 5 % +5 counts (0.10 M Ω to 9.99 M Ω) ± 10 % +5 counts (10.00 M Ω to 19.99 M Ω)
Number of tests as per IEC 61557-2 (in case of battery operation):	approx. 1,500.

TECHNICAL DATA

Substitute (Alternative) Leakage Test

Nominal Voltages:	>25 V _{AC} <50 V _{AC}
Display Range:	0.00 mA ... 19.99 mA
Measurement Range:	0.20 mA ... 19.99 mA
Resolution:	0.01 mA
Operating Error:	± 10% +2 digits

Protective Conductor Current (IPE)

Measurement Method	Differential Leakage Current
Test Voltage:	Supply Voltage, maximum load current 16 A
Display Range:	0.01 mA ... 19.99 mA
Measurement Range:	0.25 mA ... 19.99 mA
Resolution:	0.01 mA
Operating Error:	± 5% of reading ±3 digits
Frequency Response:	40 Hz to 2.5 kHz

Touch Current (IT)

Measurement Method	Direct Leakage Current
Test Voltage:	Supply Voltage, maximum load current 16 A
Display Range:	0.00 mA ... 3.5 mA
Measurement Range:	0.10 mA ... 3.5 mA
Resolution:	0.01 mA
Operating Error:	±5 % of reading ±2 digits
Frequency Range:	DC to 2.5 kHz

Load Current Measurement

Test Voltage:	Supply Voltage, maximum load current 16 A
Display Range:	0.00 ... 16.00 A (0.00 kVA ... 4.00 kVA)
Measurement Range:	0.50 ... 16.00 A (0.50 kVA ... 4.00 kVA)
Resolution:	0.01 A
Operating Error:	±10 % of reading ±5 digits

Continuity (Lead Test)

Test Voltage:	5 V _{DC} nominal
Test:	Live / Neutral checks for o/c, s/c

TECHNICAL DATA

Power Socket Test

Input voltage range:	195 V ... 253 V _{AC} Testing of voltage potential: - U (L-PE) - U (N-PE) - U (L-N) Displayed measured value: U (L-N)
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RCD Test

Test Voltage:	230 V +10 %, -15 %
Test Current:	30 mA / 150 mA rms sinusoidal
Test Current Accuracy:	30 mA -10 % +0 %, 150 mA +10 %, -0 %
Display Range:	0 ms ... 2000 ms
Measurement Range:	1 ms ... 2000 ms
Resolution:	1 ms
Operating Error:	±1 ms

External Leakage Current (Adapter 3~)

Test Voltage:	Connected to External Adapter
Display Range:	0 mA ... 9.00 mA
Measurement Range:	0.25 mA ... 9.00 mA
Resolution:	0.01 mA
Operating Error:	±5 % of reading ±2 digits