

TEST & MEASUREMENT

MEASURE WITH CONFIDENCE. DIAGNOSE WITH PRECISION.

PALM SIZE MULTIMETER, 10A

G9101

Specifications	Range	Best Accuracy
DC Voltage (V)	200mV/600V	±(0.5%+2)
AC Voltage (V)	200V/600V	±(1.2%+3)
DC Current (A)	2000uA/10A	±(1.0%+2)
Resistance(Ω)	200Ω/20MΩ	±(0.8%+2)
Temperature (°C)	–40°C/1000°C	±(1.0%+4)
Temperature (°F)	–40°F/1832°F	±(1.5%+5)
Drop Test	2m	
Diode	√	
Overload Protection	Display OL	
Data Hold	√	
Low Battery Indication	√	
SLEEP	√	
LCD Backlight	√	
Power	1.5V AAA 2PCS	
Product Size	134 X 76.5 X 47 mm	



Package Includes

- User Manual
- K-Type Thermocouple
- Test Lead
- Batteries

DIGITAL MULTIMETER, 10A

G9102

Specifications	Range	Best Accuracy
DC Voltage	400mV/1000V	±(0.5%+5)
AC Voltage	4V/750V	±(0.8%+3)
AC Current	4mA/10A	±(1.0%+2)
DC Current	400uA/10A	±(0.8%+3)
Resistance(Ω)	400MΩ/40MΩ	±(0.8%+2)
Capacitance	4nF/10mF	±(4%+5)
Frequency	10Hz~1MHz	±(0.1%+4)
Temperature (°C)	-40~1000°C or -40~1832°F	±(1.0%+4)
Features		
Auto Range	x	
NCV	√	
Diode Test	√	
Continuity Test	√	
Backlight	√	
Operation Temperature	0°C~40°C	
Safety Rating	CAT II 1000V/CAT III 600V	
True RMS	x	



Package Includes

- User Manual
- K-Type Thermocouple
- Test Lead
- Batteries

TRUE RMS MULTIMETER, 10A

G9103

Specifications	Range	Best Accuracy
DC Voltage	60mV/600V	±(0.5%+2)
AC Voltage	60mV/600V	±(0.8%+3)
AC Current	600uA/10A	±(0.7%+2)
DC Current	600uA/10A	±(1.0%+3)
Resistance(Ω)	600Ω/60MΩ	±(0.8%+2)
Capacitance	9.999NF/99.99MF	±(4.0%+5)
Frequency	10Hz/10MHz	±(0.1%+4)
Temperature (°C)	-40/1000°C	±(1.0%+3)
	-40/1832°F	±(1.5%+5)

Features	
Auto Range	√
NCV	√
Diode Test	About 3V
Continuity Test	√
Backlight	√
Operation Temperature	0°C~40°C
Safety Rating	CAT II 1000V/CAT III 600V
True RMS	x



Package Includes

- User Manual
- K-Type Thermocouple
- Test Lead
- Batteries

HEAVY DUTY LEAD TEST PROBES

G9901

Specifications	Range
Leads Length	900mm
Rod Length	136mm
Tip Length	15.7mm
Safety Level	CAT III 1000V/CAT IV 600V 20A
Safety Certificate	EN 61010-031 A1: 2015
Features and Application	UL 16AWG double insulated wire



MEASURE PRECISELY. WORK CONFIDENTLY.

ELECTRICAL MAINTENANCE & TROUBLESHOOTING



HVAC SYSTEM DIAGNOSTICS



INDUSTRIAL EQUIPMENT & POWER DISTRIBUTION



DIGITAL MULTIMETER TECHNICAL SPECIFICATIONS







	G9101	G9102	G9103
DC Voltage	200mV–600V	400mV–1000V	60mV–600V
AC Voltage	200V–600V	4V–750V	60mV–600V
DC Current	2000µA–10A	400µA–10A	600µA–10A
AC Current	—	4mA–10A	600µA–10A
Resistance	200Ω–20MΩ	400Ω–40MΩ	600Ω–60MΩ
Capacitance	—	4nF–10mF	9.999nF–99.99mF
Frequency	—	10Hz–1MHz	10Hz–10MHz
Temperature	–40°C to 1000°C	–40°C to 1000°C	–40°C to 1000°C
Temperature—Fahrenheit	–40°F to 1832°F	–40°F to 1832°F	–40°F to 1832°F
True RMS	—	—	Yes
Auto Range	—	—	Yes
NCV Detection	—	—	Yes
Diode Test	Yes	Yes	About 3V test voltage
Continuity Test	Yes	Yes	Yes
Data Hold	Yes	—	—
Low-Battery Indication	Yes	—	—
Sleep/Auto-Off	Yes	—	—
LCD Backlight	Yes	Yes	Yes
Overload Indication	Display shows “OL”	—	—
Input Impedance	≥10MΩ	—	—
Sample Rate	3 readings/second	—	—
Operating Temperature	—	0°C–40°C	0°C–40°C
Safety Rating	CAT II 600V	CAT II 1000V / CAT III 600V	CAT II 1000V / CAT III 600V
Drop-Test Rating	—	2m	2m
VFC Low-Pass Filter	—	Yes	Yes

MINI CLAMP METER, 200A/AC

G9201

Specifications	Range	Best Accuracy
AC Current (A)	2A/20A/200A	(±2.5%+20)
Features		
Display Count	2000	
Auto Range	√	
Jaw Capacity	16mm	
Auto Power Off	Around 15 minutes	
Low Battery Indic.	≤2.5V	
Data Hold	√	
Max Hold	√	
LCD Backlight	√	
Input Protection	√	
Power	AAA 1.5V x 2	
LCD Size	39.3mm x 26.5mm	
Net Weight	150g	
Size	158mm x 60mm x 33.5mm	



Package Includes
- Operating Manual
- Batteries

TRUE RMS CLAMP METER, 400A/AC

G9202

Specifications	Range	Best Accuracy
AC Current (A)	4A/40A/400A	±(1.8%+9)
AC Voltage (V)	4V/40V/400V/600V	±(1.2%+5)
DC Voltage (V)	400mV/4V/40V/400V/600V	±(0.8%+1)
Resistance (Ω)	400Ω/4kΩ/40kΩ/400kΩ/4MΩ/40MΩ	±(1.0%+2)
Capacitance (F)	50nF/500nF/5μF/50μF/100μF	±(4.0%+5)
Frequency	10Hz–10MHz	±(0.1%+4)
Features		
Auto Range	√	
Jaw Capacity	30mm	
Diode Around	1.5V	
NCV	√	
Data Hold	√	
Relative Mode	√	
LCD Backlight	√	
Flashlight	√	
Auto Power Off	√	
Continuity Buzzer	√	
Low Battery Indication	≤2.4V	
Input Protection	√	
Input Impedance for DCV	≥10MΩ	



Package Includes
- Operating Manual
- Test Lead
- Soft Carry Case
- Batteries

TRUE RMS CLAMP METER, 600A/AC

G9203

Specifications	Range	Best Accuracy
AC Current (A)	6A/60A/600A	±(2.5%+5)
AC Voltage (V)	6V/60V/600V/750V	±(1.2%+5)
DC Voltage (V)	600mV/6V/60V/600V/1000V	±(0.8%+1)
Resistance (Ω)	600Ω/6kΩ/60kΩ/600kΩ/6MΩ/60MΩ	±(1%+2)
Capacitance (F)	99.99nF/999.9nF/9.999μF/99.99μF	±(4.0%+5)
Frequency	999.9μF/9.999mF/60mF	
Features		
Auto Range	√	
Jaw Capacity	30mm	
Diode Around	Around 3.0V	
NCV	√	
Data Hold	√	
Relative Mode	√	
LCD Backlight	√	
Flashlight	√	
Auto Power Off	√	
Continuity Buzzer	√	
Low Battery Indication	≤3.6V	
Input Protection	√	
Input Impedance for DCV	≥10MΩ	



Package Includes

- Operating Manual
- Test Lead
- Soft Carry Case
- Batteries

TRUE RMS CLAMP METER, 1000A/AC

G9204-II

Specifications	Range	Best Accuracy
AC Current (A)	1000A	±(1.5%+4)
ACA Frequency (Hz)	20Hz~10kHz	±(1.0%+5)
AC Voltage (V)	1000V	±(1.0%+2)
DC Voltage (V)	1000V	±(0.7%+3)
Resistance (Ω)	60MΩ	±(0.8%+2)
Capacitance (F)	6mF	±(4%+5)
Features		
Display Count	6000	
Jaw Opening	33mm	
Auto Range	√	
True RMS	√	
Diode Test	√	
NCV	√	
Data Hold	√	
LCD Backlight	√	
Auto Power Off	Around 15 minutes	
Continuity Buzzer	√	
Low Battery Indication	≤2.5V	
Input Protection	√	
Input Impedance for DCV	≥10MΩ	



Package Includes

- Operating Manual
- 1 Pair of Test Lead
- Soft Carry Case
- Batteries

TRUE RMS AC/DC CLAMP METER, 600A/AC-DC

G9205

Specifications	Range	Best Accuracy
AC Current (A)	0.06~600A	±(2%+5)
DC current (A)	0.06~600A	±(2%+5)
AC voltage (V)	600V	±(0.8%+5)
AC Frequency (Hz)	10Hz~60kHz	±(0.5%+2)
DC voltage (V)	600V	±(0.5%+2)
Resistance (Ω)	60MΩ	±(0.8%+2)
Capacitance (F)	60mF	±(4%+5)
Temperature (°C)	-40°C~1000°C	±(1.5%+5)
Frequency (Hz)	10Hz~10MHz	±(0.1%+4)

Features	
Display count	6000
Auto range	√
Jaw Opening	28mm
True RMS	√
NCV	√
Continuity Test	√
Diode	√
MAX/MIN	√
Relative Mode	√
Zero Mode	√
Data Hold	√
Low Battery Indication	√
Auto Power Off	√



Package Includes

- Operating Manual
- Thermocouple
- Test Lead
- Soft Carry Case
- Batteries

CLAMP METER TECHNICAL SPECIFICATIONS







	G9201	G9202	G9203	G9204-II	G9205
AC Current	2 / 20 / 200A	4 / 40 / 400A	6 / 60 / 600A	1000A	0.06 – 600A
DC Current	—	—	—	—	0.06 – 600A
AC Voltage	600V	4 / 40 / 400 / 600V	6 / 60 / 600 / 750V	1000V	600V
DC Voltage	—	400mV / 4 / 40 / 400 / 600V	600mV / 6 / 60 / 600 / 1000V	1000V	600V
Resistance	—	400Ω / 4kΩ / 40kΩ / 400kΩ / 4MΩ / 40MΩ	600Ω / 6kΩ / 60kΩ / 600kΩ / 6MΩ / 60MΩ	60MΩ	60MΩ
Frequency	—	10Hz–10MHz	10Hz–10MHz	20Hz–10kHz	10Hz–60kHz
Capacitance	—	50nF / 500nF / 5μF / 50μF / 100μF	99.99nF / 999.9nF / 9.999μF / 99.99μF / 999.9μF / 9.999mF / 60mF	6mF	60mF
Input Impedance for DCV	—	≥10MΩ	≥10MΩ	≥10MΩ	—
True RMS	—	—	—	—	Yes
Jaw Capacity	16mm	30mm	30mm	33mm	28mm
Safety Rating	CAT III 600V	CAT III 600V	CAT III 600V	CAT II 1000V, CAT III	CAT III 600V
Display Count	2000	—	—	6000	6000

NON CONTACT VOLTAGE DETECTOR, 1000V

G9301-II

Specifications	Range
AC Voltage (Low)	24V - 1000V
AC Voltage (High)	90V - 1000V
Frequency (Hz)	50/60Hz
Power	1.5V batteries (R03) × 2
Operating Mode	Automatic Induction
Spotlight Flashlight	White Spotlight
Audible (Buzzer) and Visual (LED) Indication	√
Auto Power Off	About 5 minutes
Low Battery Indication	√



Package Includes
- Operating Manual
- Batteries

SOCKET TESTER

G9302

Specifications	Range
Rated Voltage	250V AC
Rated Current	13A
Operating Voltage	230V AC/50Hz
Operating Current	<18mA
Working Frequency	50~60Hz
Warning Sign	√
Double Insulation	√
LED Indications	√



Package Includes
- Operating Manual

PHASE SEQUENCE AND MOTOR ROTATION INDICATOR

G9303

Specifications	Range
AC Voltage (V)	90V~600V
Frequency (Hz)	15Hz~400Hz
Working Current (A)	<3mA
Features	
Phase Sequence Indication	LED
Missing Phase Indication	LED
Motor Rotation Indication	LED
Power	9V Battery



Package Includes
- Operating Manual
- 3 x Test Leads
- 2 x Alligator Clips
- Soft Carry Case
- Batteries

EARTH RESISTANCE TESTER, 4000Ω

G9305

Specifications	Range
Earth Resistance (Ω)	0~4000Ω / ±(2%+3)
AC Earth Voltage (V))	0~400V / ±(1%+6)
Frequency	50Hz/60Hz
Features	
Manual Range	√
Auto Power Off	About 10 minutes
Low Battery Indication	√
Data Hold	√
Data Storage	20 groups
LCD Backlight	√
Simple 2-Wire Testing	√
Precision 3-Wire Testing	√
Power	1.5V Batteries AA × 6





Package Includes

- Operating Manual
- Red test lead (20m)
- Yellow Test Lead (10m)
- Green Test Lead (5m)
- 2 x Auxiliary Earth Stakes
- Simple Test Leads with Alligator Clips
- Soft Carry Case
- Batteries

RCD/ELCB TESTER

G9306

Range Select		Range	Best Accuracy
RCD/ELCB Measurement			
X 1/2	10mA/20mA/ 30mA/100mA/ 300mA/500mA	1000ms -	±(1.5%+4)
X 1	10mA/20mA/ 30mA/100mA/ 300mA/500mA	1000ms 300ms	±(1.0%+5)
X 5	10mA/20mA/ 30mA	1000ms	±(1.0%+2)
AUTO RAMP	10mA/20mA/ 30mA/100mA/ 300mA/500mA	300ms	±(0.7%+3)
Trip Current Accuracy	-	-	±10
Trip Time Accuracy	-	-	±(0.6%+4)
Trip Time Resolution	1ms	-	-
Operational Voltage (Freq.)	195V~253V (50Hz)	-	-



Package Includes

- Operating Manual
- Test Lead
- Soft Carry Case

MULTIFUNCTION ELECTRICAL TESTER

G9307

Specifications	Range	Best Accuracy
Insulation Resistance (Ω)		
Test Voltage	250V/500V/1000V	±10%
250V	0.05MΩ~200MΩ	±(5%+5)
500V	0.05MΩ~300MΩ	±(5%+5)
1000V	0.05MΩ-500MΩ	±(5%+5)
RCD		
Operational Voltage (Freq.)	220V (45Hz--65Hz)	±10%
Test Current	10mA/30mA/100mA/300mA	0~20%
Trip Time	0ms~2000ms, 1Δn Genital (10mA)	±(5%+2)
	0ms~500ms, 1Δn Genital (30mA)	
	0ms~300ms, 1Δn Genital (100mA, 300mA)	
Low Resistance Continuity		
Range	0.00Ω~2000Ω	±(2%+5)
Test Voltage	Around 5.0V	-
Test Current	>200mA (R<2Ω)	-
Voltage Measurement (V)		
DC Voltage	0~440V	±(5%+2)
AC Voltage	0~440V	
Frequency (For reference only)		



Package Includes

- Operating Manual
- Test Lead
- Soft Carry Case

TEST SMARTER. WORK SAFER.

HVAC INSPECTION



SWITCHGEAR INSPECTION



SOLAR PANEL INSPECTION



MULTIFUNCTION INSTALLATION TESTER

G9309

Specifications	Range	Best Accuracy
Insulation Resistance (Ω)		
Output voltage	250V/500V/1000V	±10%
250V	0.05MΩ~250MΩ	±(5%+5)
500V	0.05MΩ~500MΩ	
1000V	0.05MΩ~1000MΩ	
Short-Circuit Current	<1.8mA	<2mA
Continuity Test		
Range	0.01Ω~200Ω	±(2%+5)
Test Current	0.00~2Ω: >200mA	√
Line Impedance (Ω)		
Operating Voltage (L-N)	Voltage: 195V~440V, Frequency: 45Hz~65Hz	
Test Current & Time	20A/20ms	
Measuring Scope	0.05Ω~2000Ω	
Measuring Ranges	0.05Ω~1.99Ω	
	2.0Ω~19.9Ω	
	20Ω~2000Ω	
Accuracy	±(5%+5)	
Resolution	Minimum 0.01Ω	
Prospective Short Current	0KA~26KA	
Loop impedance (Ω)		
Operating Voltage (L-E)	Voltage: 220V±10%, Frequency: 45Hz~65Hz	
Test Current & Time	20A/20ms	
Measuring Scope	0.05Ω~2000Ω	
Measuring Ranges	0.05Ω~1.99Ω	
	2.0Ω~19.9Ω	
	20Ω~2000Ω	
Accuracy	±(5%+5)	
Resolution	Minimum 0.01Ω	
Prospective Fault Current	0KA~26KA	
Non-Trip Loop Impedance (Ω)		
Operating Voltage (L-E)	Voltage: 220V±10%, Frequency: 45Hz~65Hz	
Test Current	20A	
Display Range	0.01Ω~2000Ω	
Measuring Scope	1.00Ω~2000Ω	
Measuring Ranges	1.00Ω~1.99Ω	
	2.0Ω~19.9Ω	
	20Ω~2000Ω	
Accuracy	±5%±12d+ Noise Margin (1.00~1.99)	
	±5%±5d (2.0~19.9)	
Resolution	Minimum 0.01Ω	
Prospective Fault Current	0KA~26KA	
RCD Test		
Operating Voltage (Frequency)	195V~253V (45Hz~65Hz)	√
Test Current	10mA/30mA/100mA/300mA/500mA	±10%







The GAZELLE G9309 Multifunction Installation Tester is an easy-to-use and intuitive instrument used for regular installation and maintenance testing. Designed with a combination of large-scale integrated analog & digital circuits and micro-processor chip, the G9309 measures RCD, line/loop impedance, continuity, insulation resistance, DC and AC voltage, and phase sequence. It's an ideal tool for testing, inspection and maintenance which features versatile functionality, higher accuracy, stable performance and ease of use that saves time and gives you more confidence in your results.

MULTIFUNCTION INSTALLATION TESTER

G9309

Specifications	Range	Best Accuracy
RCD Test		
Trip Time	×1/2 *I n Range: 0ms~2000ms	±(5%+5)
	×1 *I n Range: 0ms~500ms (Select count down)	
	×1 *I n Range: 0ms~300ms	
	×2 *I n Range: 0ms~150ms	
	×5 *I n Range: 0ms~40ms	
	×2 *I n Range: 0ms~200ms (Select count down)	
Phase Sequence Test		
Operating voltage (Frequency)	100V~440V (45Hz~65Hz)	√
Display	Phase sequence: L1 L2 L3, forward rotation; L1 L3 L2 reverse rotation	√
Ramp RCD Test		
Test Current	10mA/30mA/100mA/300mA/500mA	±10%
AC Voltage (V)		
Range	0V~440V	±(5%+2)
Frequency Response	45Hz~65Hz	√
Resolution	1V	√
Features		
Display Count		9999
Auto Power Off		√
Low Battery Indication		√
Data Storage		√
LCD Backlight		√
Auto Half-Wave Test		√
RCD Count Down Test	30s	√
RCD Half-Wave Test		√
Phase Conversion (RCD)	0° and 180°	√

General Characteristics	
Power	1.5V battery × 8
LCD Size	125mm × 37mm
Product Color	Blue and grey
Product Net Weight	1000g
Product Size	210mm × 175mm × 90 mm
Standard Accessories	Battery, test leads (red×1, green×1, black×1), special power test lead, remote-control test lead

- 9999-count LCD display with analogue bar; auto power off
- 250V~1000V DC insulation resistance test
- 200mA earth-resistance continuity test
- Measures RCD trip current and trip time in parallel (RCD type AC and A)
- Measures RCD switching time and tripping level (ramp test)
- Measures RCD variable current
- Loop impedance/Prospective Fault Current (PFC)/Prospective Short Current (PSC) test
- Lock test
- Data storage with one key
- 0°/180° phase angle option to detect the fastest trigger time
- Includes a phase sequence indicator
- AC/DC voltage auto check and test
- Features large display with white backlight, clear symbols, and wide viewing angle for easy and safe readings
- Rotary dial knob clearly indicates which function is selected, all in one spot with no complex multi-level menus.
- Performs fast voltage measurement between L-N, L-PE, and N-PE using the mains cord. No need to change measurement connections
- Comes with hard carrying case, test leads and batteries

Package Includes

- Instruction Manual
- Test Lead
- Hard Carry Case
- Batteries

POWER EVERY TEST. PROVE EVERY CONNECTION.

MULTIFUNCTION TESTER TECHNICAL SPECIFICATIONS





	G9307	G9309
Insulation Resistance (250V)	0.05–200MΩ	0.05–250MΩ
Insulation Resistance (500V)	0.05–300MΩ	0.05–500MΩ
Insulation Resistance (1000V)	0.05–500MΩ	0.05–1000MΩ
RCD Test Current	10/30/100/300mA	10/30/100/300/500mA
RCD Voltage/Frequency	220V/45–65Hz	—
Loop Impedance (A/ms)	—	20A/20ms
Line Impedance (A/ms)	—	20A/20ms
Continuity Test Range	—	0.01–200Ω
AC Voltage Range	0–440V	0–440V
DC Voltage Range	0–440V	0–440V
Frequency Range	—	20–100Hz
Display Type	LCD	LCD
Display Count	—	9999-count
Safety Rating	—	CAT III 300V
Data Hold	Yes	—
Backlight	Yes	—
Auto Power-Off	Yes	—
Over-Range Indication	Yes	—
Test Lead Alarm	Yes	—

INSULATION RESISTANCE TESTER, 1KV

G9304

Specifications	Range	Best Accuracy
Insulation Resistance (Ω)	Test Voltage - 250V/500V/1000V	0%~10%
	250V -0.00MΩ~5.5GΩ	±(3%+5)
	500V - 0.00MΩ~5.5GΩ	±(3%+5)
	1000V - 0.00MΩ~5.5GΩ	±(3%+5)
Low Resistance (Ω)	0.01Ω~200Ω (about 5.0V/>200mA)	±(2%+3)
AC Voltage (V)	30V~600V	±(2%+3)

Features	
DAR	60s/15s and 60s/30s
PI	√
LCD Backlight	√
Alarm Light Display	√
Auto Discharge	√
Test Voltage Vice Display	√
Power	1.5V Batteries AA x 6



Package Includes

- Operating Manual
- 3 x Test Lead
- Soft Carry Case
- Batteries

DETECT WEAKNESS. PREVENT FAILURE.

SAFETY & PORTABILITY



WIDE TEST VOLTAGE RANGE



INSULATION RESISTANCE TESTER, 2.5KV

G9310

Specifications	Range	Best Accuracy
Insulation Resistance (Ω)		
Test Voltages	100V~1000V	
	500V~2500V	0%~20
100V	0.1MΩ~500MΩ	
250V	0.5MΩ~2GΩ	
500V	1MΩ~4GΩ	
	0.5MΩ~5GΩ	±(3%+5)
	0.5MΩ~20GΩ	
1000V	2MΩ~10GΩ	±(3%+5)
	1MΩ~40GΩ	
1500V	5MΩ~20GΩ	±(3%+5)
2500V	2.5MΩ~100GΩ	
	10MΩ~100GΩ	±(3%+5)
DC Voltage (V)		
1000V		
600V		±(2%+5)
AC Voltage (V)		
750V		
600V		±(2%+5)
Short-Circuit Current		
Short-Circuit Current		<1.8mA
Low Resistance (Ω)		
Measuring Scope	0.1Ω~999.9Ω	
Features		
Auto Range/Auto Power Off		√
Test Voltage Secondary Display		
Low Battery Indication		√
Data Storage		18
Comparison Measurement		√
Polarization Index (PI)		√
Dielectric Absorption Ratio (DAR)		√
USB Interface		√
Analog Bar Graph		30
LCD Backlight		√
Over-Range Warning		√
High Voltage Indication	Around 30 minutes	√
Timing Measurement	Around 15 minutes	√



The GAZELLE G9310 Insulation Resistance Tester, 2.5kV plays an important role in testing insulation resistance during maintenance and troubleshooting of large transformers, generators, high-voltage motors, electrical wiring work, plant equipment management, and more. It can swiftly identify system problems that could potentially cause safety hazards and production downtime. The instruments are portable and user-friendly with enhanced functionality. The G9310 can also measure PI, DAR and other important specifications. Measured data can then be analysed through PC software.

- Large 9999 display with 30-segment analog bar graph
- PI/DAR measurements & Continuous measurement mode
- Comparison, upper and lower limit functions with 18-group data storage
- Auto power off, backlight, and low battery & over range indications
- Auto current discharge and high-voltage output alarm
- Power adapter, USB interface and PC software
- Time measurement mode, auto measure within 15 minutes

Package Includes

- 2 x 1 Plug Test Lead to 1 Alligator Clip
- 1 x 2 Plugs Test Lead to 1 Alligator Clip
- PC Software CD
- USB Cable
- Power Adaptor
- Hard Carry Case
- Batteries

INSULATION RESISTANCE TESTER, 5KV

G9311

Specifications	Range	Best Accuracy
Insulation Resistance (Ω)		
Test Voltages	100V~1000V	
	500V~2500V	
	500V~5000V	0%~20
500V	1MΩ~4GΩ	
	0.5MΩ~5GΩ	
	0.5MΩ~20GΩ	±(3%+5)
1000V	2MΩ~10GΩ	
	1MΩ~40GΩ	±(3%+5)
1500V	5MΩ~20GΩ	
2500V	2.5MΩ~100GΩ	±(3%+5)
	10MΩ~100GΩ	
5000V	5MΩ~1000GΩ	±(3%+5)
DC Voltage (V)		
600V		±(2%+3)
AC Voltage (V)		
600V		±(2%+3)
Short-Circuit Current		
Short-Circuit Current		>3mA
Features		
Auto range/Auto Power Off		√
Test Voltage Secondary Display		√
Low Battery Indication		√
Data Storage		18
Comparison Measurement		√
Polarization Index (PI)		√
Dielectric Absorption Ratio (DAR)		√
USB Interface		√
Analog Bar Graph		30
LCD Backlight		√
Over-Range Warning		√
High Voltage Indication	Around 30 minutes	√
Timing Measurement	Around 15 minutes	√



The GAZELLE G9311 Insulation Resistance Tester, 5kV plays an important role in testing insulation resistance during maintenance and troubleshooting of large transformers, generators, high-voltage motors, electrical wiring work, plant equipment management, and more. It can swiftly identify system problems that could potentially cause safety hazards and production downtime. The instruments are portable and user-friendly with enhanced functionality. The G9311 can also measure PI, DAR and other important specifications. Measured data can then be analysed through PC software.

- Large 9999 display with 30-segment analog bar graph
- PI/DAR measurements & Continuous measurement mode
- Comparison, upper and lower limit functions with 18-group data storage
- Auto power off, backlight, and low battery & over range indications
- Auto current discharge and high-voltage output alarm
- Power adapter, USB interface and PC software
- Time measurement mode, auto measure within 15 minutes

Package Includes

- 2 x 1 Plug Test Lead to 1 Alligator Clip
- 1 x 2 Plugs Test Lead to 1 Alligator Clip
- PC Software CD
- USB Cable
- Power Adaptor
- Hard Carry Case
- Batteries

INSULATION RESISTANCE TESTER, 12KV

G9312

Specifications	Range	Best Accuracy
Insulation Resistance (Ω)		
500V	0.50MΩ~4.99GΩ	±(5%+5)
	5.00GΩ~49.9GΩ	±(10%+10)
	50.0GΩ~500GΩ	for reference only
1000V	1.00MΩ~9.99GΩ	±(5%+5)
	10.0GΩ~99.9GΩ	±(15%+10)
	100GΩ~1000GΩ	for reference only
2500V	2.50MΩ~24.9GΩ	±(5%+5)
	25.0GΩ~249GΩ	±(15%+10)
	250GΩ~2.5TΩ	for reference only
5000V	5.00MΩ~49.9GΩ	±(5%+5)
	50GΩ~499GΩ	±(15%+20)
	500GΩ~5.0TΩ	for reference only
10000V	10.0MΩ~99.9GΩ	±(10%+10)
	100GΩ~999GΩ	±(20%+20)
	1000GΩ~10TΩ	for reference only
12000V	12.0MΩ~99.9GΩ	±(10%+10)
	100GΩ~999GΩ	±(20%+20)
	1000GΩ~10TΩ	for reference only

Output Voltage	
500V	0~+10%
1000V	0~+10%
2500V	0~+10%
5000V	0~+10%
10000V	-5~+10%
12000V	-5~+10%
Load Current	
500V (R=500kΩ) 1mA	0%~+20%
1000V (R=1MΩ) 1mA	0%~+20%
2500V (R=2.5MkΩ) 1mA	0%~+20%
5000V (R=5MΩ) 1mA	0%~+20%
10000V (R=10MΩ) 0.15~1.2mA	0%~+20%
12000V (R=12MΩ) 0.15~1.2mA	0%~+20%
DC Voltage Measurement	
30V~1000V	±(3%+5)
AC Voltage Measurement	
30V~750V (50~60Hz)	±(3%+5)
Features	
PC Software For Data Analysis	√
Backlight Function	√
Data Storage	999 sets of data
Dielectric Absorption Ratio (DAR)	0.00~999
Polarization Index (PI)	0.00~999
Power	1.5V Alkaline Batteries (LR14) x 10, Power Adapter
Display	71mm x 34mm
Product Color	Red and Grey
Product Net Weight	6.6 kg
Product Size	410mm x 342mm x 204mm
Standard Quantity Per Carton	1 pc.
Standard Carton Measurement	510mm x 320mm x 420mm
Standard Carton Gross Weight	10.2kg



The GAZELLE G9312 Insulation Resistance Tester, 12kV is a digital high voltage insulation resistance tester with 6 ranges: 500V, 1000V, 2500V, 5000V, 10000V and 12000V. The G9312 plays an important role in testing insulation resistance during maintenance and troubleshooting of large transformers, generators, high-voltage motors, electrical wiring work, plant equipment management, and more. It can swiftly identify system problems that could potentially cause safety hazards and production downtime. The instruments are portable and user-friendly with enhanced functionality. The test data can be saved in the tester memory and transferred to a PC via the dedicated USB cable, or be transferred to a PC in real-time.

- AC/DC voltage
- USB data transfer
- 9999 Max display, low battery indication & LCD backlight • Data storage & Polarization Index
- Over-range alarm
- Comparative measurement & measurement time selection

Package Includes

- User Manual
- Test Leads
- USB Cable
- Power Adaptor
- Hard Carry Case
- Batteries

GAZELLE®

TEST BEYOND THE SURFACE. STOP FAILURES BEFORE THEY START.

INSULATION RESISTANCE TESTER TECHNICAL SPECIFICATIONS









	G9304	G9310	G9311	G9312
Maximum test voltage	1000V	2500V	5000V	12000V
Test voltage selection	250 / 500 / 1000V	Up to 2.5kV	100 V–5kV	500 / 1,000 / 2,500 / 5,000 / 10,000 / 12,000 V
Insulation resistance range	Up to 5.5 GΩ	0.1 MΩ–100 GΩ	0.1 MΩ–1,000 GΩ	0.5 MΩ–10 TΩ
Insulation accuracy	±(3% + 5)	Typically ±(3% + 5)	Typically ±(3% + 5)	Varies by range: ±(5% + 5) to ±(20% + 20); highest ranges are reference-only
AC voltage measurement	30–600V	Up to 600V	Up to 600V	30–750V
DC voltage measurement	—	Up to 600V	600V	30–1000V
Low-resistance	0.01–200 Ω	0.1–999.9 Ω	—	—
Short-circuit/load current	—	Less than 1.8mA	Greater than 3mA	1 mA up to 5kV; 0.15–1.2mA at 10–12kV
PI measurement	Yes	Yes	Yes	Yes
DAR measurement	Yes	Yes	Yes	Yes
Auto discharge	Yes	Yes	Yes	Yes
Data storage	—	18 groups	18 groups	999 data sets
USB/PC software	—	Yes	Yes	Yes
Display	Backlit LCD with alarm indicator	9,999-count LCD and 30-segment bar graph	9,999-count LCD and 30-segment bar graph	9,999-count LCD with backlight
Safety category	CAT III 600V	CAT III 600V	CAT III 600V	CAT III 600V
Power	6 × AA batteries	Batteries or power adaptor	Batteries or power adaptor	10 × LR14 batteries or power adaptor

PORTABLE APPLIANCE TESTER KIT

G9308-KIT

Range	Best Accuracy	Parameter
Insulation Resistance Test		
0.20MΩ~19.99MΩ	±5%+2	Output Voltage 250V / 500V
		Output Current (R=500KΩ): > 1mA
		(R=1KΩ): < 2mA
		Short-circuit Current < 3mA
Ground Resistance		
Class I PASS Value 0.2Ω	±5%+2	Measuring Current > 200mA (R<2Ω)
IEC Lead PASS Value 0.2Ω	±5%+2	Measuring Voltage 5V DC
Leakage Test		
0.10~10.5mA	±5%+2	Measuring Voltage 40V rms
		Test Frequency 59Hz AC
IEC Lead Test + 30m Long Lead Test		
Correct Wiring	√ GOOD	
Open Circuit, Short Circuit, Reverse Polarity	X FAIL	
Power Socket Test		
Normal	Prompt "LN √, LE √, NE √"	AC220V ±10% Input
Earth Fault	Prompt "LN √, LE x, NE x"	AC220V ±10% Input
Neutral Line Fault	Prompt "LN x, LE √, NE x"	AC220V ±10% Input
Features		
Mode	√	
Low Battery Indication	√	

The GAZELLE G9308 Portable Appliance Tester is used by professionals at all levels of expertise. With its easy-to-use interface, ability to test all appliances, and portable, battery-powered design, this PAT Tester is crucial for maintaining electrical safety in any workplace. The tester features a one-touch solution with auto-test capabilities, enabling you to work faster without compromising on your safety.

- Easy-to-use PAT tester which does all the tests you need with minimal effort
- Ideal for use by those new to PAT testing, or those with a smaller amount of appliances to test with up to 1000 test battery life
- Insulation test at 250V and 500V
- Earth continuity test (IT equipment safe)
- Built-in mains socket connector
- Simple interface - three buttons on the front clearly labelled for each appliance type







Package Includes

- G9308 PAT tester
- G9301-II Voltage Detector
- G9302 Socket Tester
- G80363 VDE Screwdriver 13 pcs. set
- G9904 Pass/Failed Labels
- USB with Gazelle PAT Software

PORTABLE APPLIANCE TESTER

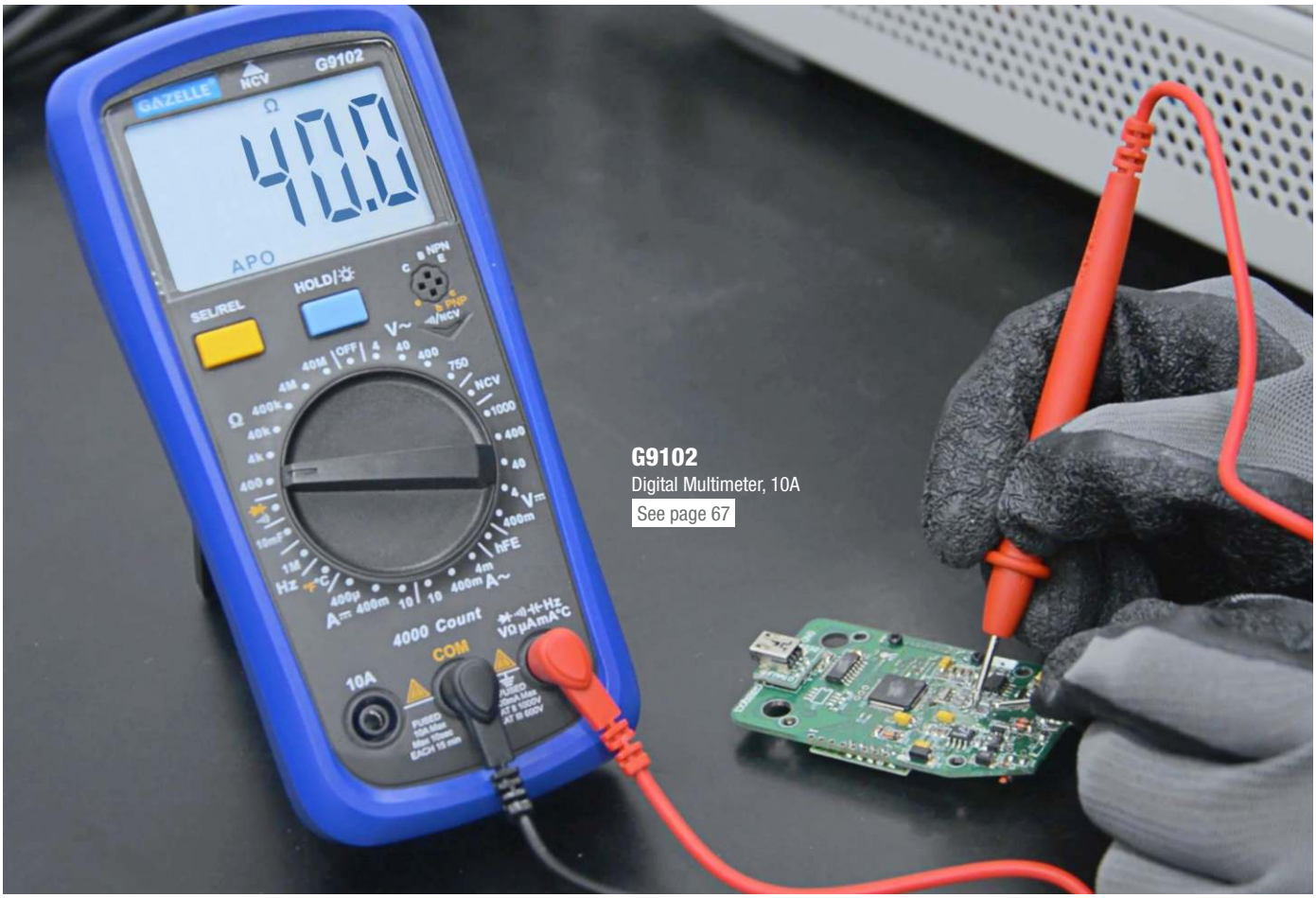
G9308

Range	Best Accuracy	Parameter
Insulation Resistance Test		
0.20MΩ~19.99MΩ	±5%+2	Output Voltage 250V / 500V
		Output Current (R=500KΩ): > 1mA
		(R=1KΩ): < 2mA
		Short-circuit Current < 3mA
Ground Resistance		
Class I PASS Value 0.2Ω	±5%+2	Measuring Current > 200mA (R<2Ω)
IEC Lead PASS Value 0.2Ω	±5%+2	Measuring Voltage 5V DC
Leakage Test		
0.10~10.5mA	±5%+2	Measuring Voltage 40V rms
		Test Frequency 59Hz AC
IEC Lead Test + 30m Long Lead Test		
Correct Wiring	√ GOOD	
Open Circuit, Short Circuit, Reverse Polarity	X FAIL	
Power Socket Test		
Normal	Prompt "LN √, LE √, NE √"	AC220V ±10% Input
Earth Fault	Prompt "LN √, LE x, NE x"	AC220V ±10% Input
Neutral Line Fault	Prompt "LN x, LE √, NE x"	AC220V ±10% Input
Features		
Mode	√	
Low Battery Indication	√	



Package Includes

- Operation Manual
- Test Lead
- IEC Lead
- Alligator Clip
- Hard Carry Case
- Batteries



G9102
Digital Multimeter, 10A
See page 67

G9320
UNDERGROUND UTILITY LOCATOR

MULTIPLE UTILITY DETECTION

Detects power cables, communication cables, metal pipes and more.

DETECTION DEPTH UP TO 25 METERS

25m

Locate utilities up to 25 meters (82ft) deep.

ACTIVE & PASSIVE MODES

Active mode with transmitter for precise tracing. Passive mode for live signal detection.



UNDERGROUND UTILITY LOCATOR

G9320

Specifications	Range
Receiver Modes	Direct connection, clamp coupling, radiation, booster mode.
Detection Modes	Wide peak, narrow peak, valley mode, historical curve, frequency spectrum
Active Frequencies	640Hz, 1280Hz, 8kHz, 33kHz, 82kHz, 197kHz
Max Depth Measurement	25 meters (Active Mode)
Display Interface	320 x 240 dot matrix color LCD
Battery Type and Capacity	Lithium-ion, 7.4V nominal, >3Ah
Charger Input	AC 100-240V, 50/60Hz
Protection Rating	IP65
Operating Conditions	Temperature -25°C to 60°C; humidity <90%; altitude <4500m
Dimensions	680 x 120 x 277mm
Weight	2.0kg



Package Includes

- Operating Manual
- G9333 Receiver Charger
- G9335 Depth Measurement Auxiliary Sensort
- G9331 Soft Carry Case

LINE TRANSMITTER

G9326

Specifications	Range
Output Modes	Direct connection, clamp coupling, radiation, booster mode
Output Frequency Range	640Hz, 1280Hz, 8kHz, 33kHz, 82kHz, 197kHz
Output Power Capacity	15W (maximum), 10 adjustable levels
Impedance Matching	Fully automatic
Overvoltage/Overcurrent Protection	Fully automatic
Display Interface	320×240 dot matrix color LCD
Battery Type and Capacity	Lithium-ion, 7.4V nominal, >6Ah
Charger Input	AC100-240V, 50/60Hz
Charger Output	USB-C port PD fast charge I 5V⎓3A, 9V⎓3A, 12V⎓3A, 15V⎓3A, 20V⎓3.25A (max)
Operating Conditions	Temperature -25°C to 60°C; Humidity <90%; Altitude <4500m
Dimensions	280 × 220 × 90mm
Weight	2.3kg



Package Includes

- G9333 Receiver Charger
- G9332 Direct Connetion Cable
- G9334 Ground Rod x 2

UNDERGROUND UTILITY LOCATOR

G9321

Specifications	Range
Reception Method	Built-in coil
Detection Modes	Wide peak, narrow peak, valley mode
Active Frequencies	512Hz, 1024Hz, 8kHz, 33kHz, 82kHz
Max Depth Measurement	5 meters
Maximum Detection Depth of Sonde	10 meters
Display Interface	320 x 480 LCD
Passive Frequency Band	Power frequency and its harmonics, high, medium and low frequency bands of radio frequency
Communication	Bluetooth (optional)
Battery Type and Capacity	Built-in lithium-ion battery pack, nominal 7.4V, >2.5Ah
Charger Input	AC 100-240V, 50/60Hz
Operating Conditions	25°C to 60°C, <90% RH, <4500m
Protection Level	IP54
Dimensions	1.18kg
Weight	628 x 287 x 98mm



Package Includes

- Transmitter Direct Connection Output Cable
- Earth Stake
- Grounding Extension Cable
- Gallium Nitride Fast Charger

LINE TRANSMITTER

G9321T

Specifications	Range
Output Modes	Direct connection, clamp coupling (optional), radiation (optional)
Output Frequency Range	512Hz, 1024Hz, 8kHz, 33kHz, 82kHz
Output Power Capacity	6W max
Impedance Matching	Fully automatic
Overvoltage/Overcurrent Protection	Fully automatic
Display Interface	480 x 240 LCD
Battery Type and Capacity	Built-in Lithium-ion Battery Pack, Nominal 7.4V, >5Ah
Maximum Output Voltage	60V
Maximum Output Current	200mA
Dimensions	278 x143 x 52mm
Weight	1.15kg



CABLE FAULT LOCATOR A-FRAME WITH 1KV BOOSTER — G9325

- **Precise Fault Location:** Utilizes advanced step voltage detection to accurately pinpoint faults along underground cables or pipeline insulation breakdowns.
- **Intuitive Operation:** Automatically recognized by the receiver upon connection, seamlessly switching the locator into fault detection mode.
- **Easy Assembly & Use:** Probes effortlessly attach to the A-frame base, and the clear on-screen direction and signal indicators swiftly guide operators to fault sites.



TRANSMITTER CLAMP — G9327

- **Clamp-Based Signal Coupling:** Transmitter clamp efficiently couples the locating signal onto live or running cables without direct electrical contact.
- **Non-Intrusive Operation:** Does not affect the normal operation of the pipe or cable, making it safe and convenient for energized lines.
- **Optimized Clamp Spacing:** Requires 2–5 m distance between transmitting clamp and receiving clamp to reduce radiated signal interference and ensure accurate readings.



RECEIVER CLAMP — G9328

- **Unique Cable Identification:** Accurately detects the target cable using current and phase measurement for reliable identification.
- **Automatic Clamp Receiving Mode:** Automatically switches the receiver to clamp receiving mode when the clamp is connected for faster operation.
- **Smart Identification at 640 Hz & 1280 Hz:** Supports more reliable cable tracing and verification at key frequencies used for accurate detection.



HARD CARRY CASE — G9330

- **Reinforced Impact-Resistant Construction:** Protects the underground utility locator and accessories from damage during transport, storage, and field use.
- **Custom-Molded Organized Interior:** Securely holds the equipment in place with dedicated compartments for cables, clamps, and transmitters.
- **Weather-Resistant Protection:** Helps shield sensitive equipment from moisture and dust in demanding working environments.



SOFT CARRY CASE

G9331

- **Lightweight Flexible Design:** Makes it easy to carry and transport during field operations.
- **Durable Weather-Resistant Construction:** Helps protect equipment from dust, light moisture, and everyday handling.
- **Organized Storage Compartments:** Keeps accessories neatly stored and easy to access with zippered sections and quick-access pockets.



DIRECT CONNECTION CABLE

G9332

- **Direct Signal Injection:** Feeds the transmitter signal directly into metallic pipes, telecom cables, power cables, and other metal structures.
- **Secure Dual-Clip Grounding:** The red clip connects to exposed metal, while the black clip connects to a grounding rod at least 5 m away.
- **Safety Warning:** The transmitter output reaches up to 150 Vpp. Do not touch the clips or target pipe during operation.



RECEIVER AND TRANSMITTER CHARGER

G9333

- **USB-C Fast Charging:** Charges the transmitter and receiver using the AC plug and dual USB-C fast charging cable.
- **Charging Status Indicator:** Shows charging progress, with a green light indicating full charge.
- **Fast Recharge Time:** Charges the transmitter in about 3–4 hours and the receiver in about 1.5–2 hours.



GROUND ROD X 2

G9334

- **Optimized Grounding Performance:** High-conductivity ground rods provide stable, reliable grounding for accurate signal transmission.
- **Low-Interference Detection:** Proper rod placement helps reduce interference and improve locating accuracy.
- **Enhanced Signal CItity:** Two durable ground rods help strengthen the earth return path for clearer, more consistent signals.



DEPTH MEASUREMENT AUXILIARY SENSOR

G9335

- **Interference Indication:** Alerts the user during depth measurement to help improve accuracy and reliability.
- **Enhanced Depth Measurement:** Provides real-time depth readings and warns of signal distortion for more dependable results.
- **Easy Assembly & Use:** Attaches easily to the receiver for quick setup and field use.



STETHOSCOPE

G9337

- **Cable Identification in Confined Spaces:** Helps locate and distinguish cables in tight areas where other methods may not be practical.
- **Signal Differentiation Technique:** Uses signal amplitude differences to manually identify the target cable from adjacent cables.
- **Phase Measurement at 640 Hz & 1280 Hz:** Supports phase measurement and anti-error tracking for more accurate cable identification.





G9320
Underground Utility Locator
See page 87

TEMPERATURE HUMIDITY METER

G9401

Specifications	Range
Temperature	
Range	-10~50°C (14~122°F)
Resolution	0.1°C (0.1°F)
Accuracy	±1°C (±1.8°F)
External Temperature Probe	
Range	-10~50°C (14~122°F)
Resolution	0.1°C (0.1°F)
Accuracy	±1°C (±1.8°F)
Humidity	
Range	10~99%RH
Resolution	1%RH
Accuracy	±5%RH
Features	
Sampling Frequency	10s
Alarm Clock	√
Battery	1*AAA
Certification	CE



Package Includes

- Operating Manual
- Batteries
- Temperature Probe

MINI CONTACT THERMOMETER

G9402

Specifications	Range	Best Accuracy
Temperature measurement (K)	-50~1300°C	±(0.5%+1)
Temperature measurement (J)	-50~1200°C	±(0.5%+1)
Features		
Difference Measurement (T1-T2)	√	
Unit Conversion (°C/°F)	√	
Max/Min/Avg	√	
Function selection (K/J)	√	
Backlight	√	
Working Temperature	0°C~40°C	
Working Humidity (Relative)	≤80%RH	
1m Drop Test	√	
Power	3 x AAA	



Package Includes

- Operating Manual
- Batteries
- Temperature Probe

CONTACTLESS INFRARED THERMOMETER, -50 TO 500°C

G9403-II

Specifications	Range
Mini Infrared Thermometer	CE, UKCA
Temperature Range	-50°C~500°C
Laser Type	Circle
Accuracy	±2°C or ±2%
Resolution	0.1°C
D:S Ratio	12:1
Response Time	≤250ms
Emissivity	0.10~1.00 Adjustable
Laser Class	Class 2
Laser Power	<1mW
Laser Wavelength	630nm~670nm
Spectral Response	8μm~14μm
Features	
Display Type	EBTN-LCD
Unit Selection	°C/°F
Laser On/Off	√
Data Hold	√
Aut Power Off	√
Low Battery Indication	√
MAX/MIN/AVG/DIF mode	√
High/Low Temperature Alarm (Audible)	√
Drop test	1m



Package Includes
- Operating Manual
- Batteries

CONTACTLESS IR THERMOMETER

G9404

Specifications	Range
Temperature Range	-35°C~450°C
Measurement Accuracy	>0°C:±1.8°C or ±1.8% which i greater,<0°C: ±1.8°C+0.1°C/°C)
	> 32°C ± 3.6°F or ±1.8% which is greater, <32°F: ±(3.6°F+0.1°F/°F)
Repeated Accuracy	1.0°C(2.0°F) or 1.0% of reading, whichever is greater
Display Resolution	0.1°C/0.1°F
D:S (Distance to Spot Size)	10:1 / 250ms (95% of reading) Response Time
Emissivity (Adjustable, Step Length: 0.01)	0.95
Laser Count	Single laser / Type 2
Features	
High and Low Temperature Alarm	√
LCD Backlight	√
Protection Grade	IP65
Drop Test	3 meters
Tripod Mounting Holes	√
Power Supply	9V Battery



Package Includes
- Operating Manual
- Soft Carry Case
- Battery

MINI TEMPERATURE & HUMIDITY METER W/ BLUETOOTH

G9405-Log

Range	Resolution	Best Accuracy
Humidity		
0~99%RH	0.1%RH	±5~RH (0~99%RH)
-10~60°C	0.1°C	±1.0°C
14~140°F	0.2°F	±2.0°F
Features		
Sampling Rate	0.5s	
Unit Conversion	°C/°F	
LCD Backlight	Yes	
Battery	AAA 1.5V*3 batteries	
Working Environment	Temperature : 0~40°C Humidity: ≤80%RH	
Storage Environment	Temperature: -20~60°C below Humidity: ≤75%RH	
MAX/MIN	MAX/MIN	
Data Hold	HOLD	



Package Includes
- Operating Manual
- Batteries

MINI SOUND LEVEL METER W/ BLUETOOTH

G9406-Log

Specifications	Range	Best Accuracy
Noise (A Weighting)	30~130dB (0.1dB Res)	±5~RH (0~99%RH)
Sampling Rate	FAST	125ms
	SLOW	1000ms
MAX/MIN		MAX/MIN
Data Hold	0.5s	HOLD
LCD Backlight	°C/°F	Yes
Battery	Yes	AAA 1.5V x 3 Batteries
Working Environment	Temperature	0~40°C
	Humidity	≤80%RH
Storage Environment	Temperature	-20~60°C
	Humidity	≤75%RH



Package Includes
- Operating Manual
- Batteries

MINI TEMPERATURE & HUMIDITY METER W/ BLUETOOTH

G9407-Log

Range	Resolution	Best Accuracy
Wind Speed		
0~30m/s	0.1m/s	±5%rdg+0.5
Temperature		
-10~50°C	0.1°C	±2°C
14~122°F	0.2°F	±4°F
Wind Scale		
Level 0~12	1	±1
Work Environment		
Temperature	0~40°C	
Humidity	≤80%RH	
Storage Environment		
Temperature	-20~60°C	
Humidity	≤75%RH	
Features		
Sampling Rate	0.5s	
MAX/AVG	MAX/AVG	
Data Hold	HOLD	
LCD Backlight	Yes	
Battery	AAA 1.5V x 3 Batteries	



Package Includes
- Operating Manual
- Batteries

MINI LIGHT METER W/ BLUETOOTH

G9408-Log

Specifications	Range
Illuminance Measurement (LUX)	199,900 Lux
Illuminance Measurement (FC)	FAST
Accuracy	0~9999Lux/0~999Fc: ±(4%+8)
	≥10000Lux/≥1000Fc: ±(5%+10)
	≥100000Lux/≥9999Fc: ±(5%+10)
Resolution	1Lux (0~9999Lux)
	10Lux (≥10,000Lux)
	100Lux (≥100,000Lux)
	1Fc (0~9999Fc); FC=Lux/10.76
	10Fc (≥10,000Fc); FC=Lux/10.76
Sampling Time	0.5s
Features	
APP	√
Bluetooth®	√
Overload Indication	OL
MAX/MIN	√
Data Hold	√
LCD backlight	√
Auto Power Off	√
Low Battery Indication	√
Tripod Mounting Hole	√



Package Includes
- Operating Manual
- Batteries

LASER TACHOMETER

G9409

Range	Resolution	Best Accuracy
RPM Measurement		
10.0~9999.9 RPM	0.1	±(0.04%+2)
10000~99999 RPM	1	
Counting Measurement		
0~99999 Count	1 count (<10kHz, pulse width 5%)	±1 count

Features	
Target Distance	50mm ~ 200mm
Drop Test	1m
Working Temperature and Humidity	0°C to 50°C (no more than 80%RH)
Storage Temperature and Humidity	-20°C to + 60°C (no more than 80%RH)
Power Supply	3 1.5V Batteries (AAA)
Battery Life	Continuous work for 12 hours



Package Includes
- Operating Manual
- Reflective Strips
- Batteries

WALL SCANNER, 100MM

G9411

Specifications	Range
Detect Principle	Electro-magnetic induction
Detects	Wooden beam, metal object, electric wire
Metal-Scan Depth	100mm @iron pipe; 80mm @brass pipe
Stud-Scan Depth (Wood)	38mm
AC Electric Wire Depth	50mm
Detect Accuracy	±15mm @28.5mm depth drywall
Notifications	Voice
Power	3.7V 300mAh Li-ion
Product Net Weight	112g
Product Size	135 x 60 x 25mm



Package Includes
- Operating Manual
- Soft Carry Case
- Batteries

DIGITAL CONTACT THERMOMETER

G9412

Specifications	Range
Measurement Range	-40°C~250°C (-40°F~482°F)
Accuracy	±2°C (-40°C≤T<-20°C)
	±1°C (-20°C≤T≤100°C)
	±2°C (100°C<T≤250°C)
	±4°F (-40°F≤T<-4°F)
	±2°F (-4°F≤T≤212°F)
	±4°F (212°F<T≤482°F)
Minimum Measuring Depth	12 mm
Sensor	NTC
Stabilization Time	20s
Display Resolution	0.1°C (0.1°F)
Battery Type	1 x 3V button cell (CR1632)
Battery Duration	12 hours
Product Size	190 x 29.5 x 15.5 mm
Net Weight	50.8 g
Operating Temperature	0°C~40°C (32°F~104°F)
Storage Temperature	-20°C~60°C (-4°F~140°F)
Operating Humidity	< Rh80% (No condensable)
Protective Level	IP65 rated according to IEC60529
Drop Test	1m
Certification	CE
Reference Standard	JJG226-2001



Package Includes
- Operating Manual
- Battery

TEMPERATURE AND HUMIDITY LOGGER

G9413

Range	Resolution
IP Rating	IP67
Range	Temperature: -40°C~80°C
	Humidity: 0%RH~100%RH non-condesation
Resolution	Temperature: 0.1°C
	Humidity: 0.1%RH
Accuracy	Temperature:
	-40°C~-30°C: ±2.0°C
	-30°C~0°C: ±1.0°C
	-0°C~40°C: ±0.5°C
	40°C~70°C: ±1.0°C
	70°C~80°C: ±2.0°C
	Humidity:
	±3.0%RH (20%RH~80%RH)
	±5.0%RH (<20% or >80%RH)
Data Storage	0~60,000



Package Includes
- Operating Manual
- Battery

COATING THICKNESS GAUGE

G9420

Range	Thickness	Resolution	Accuracy
Ferrous and Non-ferrous			
0~1250μm	0~99.9μm	0.1μm	±(1+3%)μm
	100~1250μm	1μm	
0~49.2mil	0~4.99mil	0.01mil	±(0.04+3%)mil
	5.0~49.2mil	0.1mil	

Features	
Minimum Convex Radius of Curvature	5mm
Minimum Concave Radius of Curvature	50mm
Minimum Measured Area Diameter	20mm
Minimum Substrate Thickness	0.5mm
Display Screen	2in TFT LCD with 320*240 Screen
Auto Rotatable Screen	Yes
Unit Conversion	μm / mil
Alarm Indication	Yes
Audio Indication	Yes
Limit Setting	Yes
Measurement Method	Single / Continues
Statistical Measurement	Max / Min / Average
Automatic Identification	Yes
USB Communication	Yes
Data Storage	500 Groups
Backlight Brightness	5 Levels
Auto Power Off	5 minutes
Low Battery Indication	2.2V±0.2V Low Battery Indication



Package Includes

- Operation Manual
- Non-ferrous Substrate
- Standard Coating Thickness Sheet (51μm - 1008μm)
- Hard Carry Case
- Ferrous Substrate
- 2 x Sensor Cover
- USB Cable
- Hand Rope
- PC Software CD



G9403-II
Contactless Infrared Thermometer
See page 93

SEE THE HEAT.
SEE THE FAILURE.

HVAC INSPECTION



SWITCHGEAR INSPECTION



SOLAR PANEL INSPECTION



ELECTRIC PANEL INSPECTION



INDUSTRIAL MOTOR INSPECTION



BUILDING INSPECTION



THERMAL CAMERA TECHNICAL SPECIFICATIONS







	G9710	G9701PRO	G9706PRO
Temperature Range	-20 to 400°C	-20 to 550°C	-20 to 650°C
IR Resolution	256×192 pixels	190×144 pixels	640×480 pixels
Total Pixel	49,152	27,360	307,200
Image Sensor	—	Uncooled Focal Plane Arrays	Vanadium Oxide Uncooled FPA
Pixel Pitch	12µm	17µm	17µm
Field of View	25°×19° / 50°×37.2°	25°×18.7°	25°×19°
Focal Length	3.5mm	6.2mm	25mm
IFOV (Spatial Resolution)	3.43mrad	2.74mrad	0.68mrad
Aperture	F1.1	F1.1	F1.1
Image Frequency	25Hz	25Hz	50Hz
Display	3.5" LCD Touchscreen 640×480p	—	4.3" LCD Touch Screen
Optical Camera	8MP	—	8MP
Protection / Drop Test	IP54 / 2m	—	—
Battery Life	Up to 4 hrs	Up to 5 hrs (2 batteries incl.)	Up to 4 hrs (2 batteries incl.)

POCKET THERMOGRAPHY CAMERA, 256X192P

G9710

Specifications	Range
Infrared Image	
IR Resolution	256 x 192 (49, 152 pixels)
NETD	< 40 mK (@ 25°C, F#=1.0)
Image Frequency	25Hz
Detector Pitch	12μm
Spectral Range	7.5 to 14μm
Focal Length	3.5mm
F-number	F1.1
Field of View (FOV)	50° x 37.2°
Spatial Resolution (IFOV)	3.43 mrad
Min. Focus Distance	0.3m (0.98 ft)
Focus Mode	Focus Free
Image Display	
Visual Camera	3264 x 2448 (8 MP)
Display	640 x 480 Resolution, 3.5" LCD Touch Screen
Screen Brightness	Manual
Digital Zoom	1.0x to 4.0x continuous
Color Palettes	White Hot, Black Hot, Rainbow, Ironbow, Red Hot, Fusion, Rain
Image Modes	Thermal/Visual/Fusion/PIP/Blending
Measurement and Analysis	
Object Temperature Range	-20°C to 400°C (-4°F to 752°F)
Accuracy	Max (±2°C/3.6°F, ±2%), for the ambient temp. 15°C to 35°C (59°F to 95°F) and object temp. above 0°C (32°F)
Measurement Tools	Center Spot, Hot Spot, Cold Spot
Level and Span Mode	Auto/Manual/1-Tap Touch-screen
Data Storage and Communication	
Storage Media	Built-in 16 GB flash memory
Image Storage Capacity	Approx. 60,000 Images
Annotations	Voice note: max. 60 seconds; Text note: max. 200 characters
Video Storage Capacity	Approx. 54 hours
Video File Format	MP4 video
General	
Wi-Fi	802.11 b/g/n (2.4 GHz and 5 GHz)
Bluetooth	Bluetooth 4.2
USB Interface	USB Type-C
LED Light	Yes
Battery Type	Rechargeable Li-ion battery
Battery Operating Time	Approx. 4 hours
Battery Charging Time	Approx. 2.5 hours fully charged
Protection Level	IP54
Drop Test Height	2m (6.56ft)
Working Temperature Range	-10°C to 50°C (-4°F to 122°F)
Storage Temperature Range	-20°C to 60°C (-4°F to 140°F)
Relative Humidity	< 95% non-condensing
Weight	Approx. 218 g (0.481 lb)
Dimension	138.5 x 85.2 x 23.6mm (5.45 x 3.35 x 0.93in)
Tripod Mounting	UNC ¼”-20



GAZELLE Pocket Thermography Camera is equipped with a high-resolution VOx detector, an 8 MP optical camera, and a 3.5” LCD touch screen. It helps you quickly and efficiently locate the hidden problems and accurately measure abnormal temperature. The wide temperature range of -20°C to 400°C is ideal for building inspection, HVAC, electrical, and mechanical equipment maintenance. The 25 Hz frame rate keeps up with fast inspections, and the Wi-Fi function allows the Pocket to share images in real time. It is a powerful thermography tool in your pocket, so it is always there whenever you need it.

- Thermal resolution: 256 × 192 (49, 152 pixels), NETD: < 40 mK (@ 25°C, F# = 1.0)
- Accurately measure temperature from -20°C to 400°C (-4°F to 752°F)
- Accuracy: Max. (± 2°C/3.6°F, ± 2%)
- 25 Hz image frequency
- Thermal, fusion, PIP, and optical modes,8 MP optical camera
- Manual, automatic, and 1-Tap level and span
- High temperature alarm
- Built-in 16 GB memory
- LED work light
- 1.0x to 4.0x continuous digital zoom
- 8 MP Optical camera
- Up to 4 hours continuous running

Package Includes

- Quick Start Guide
- Power Supply
- USB Cable
- Wrist Strap
- Hard Carry Case

ADVANCED THERMAL IMAGER, 640X480P

G9706PRO

Specifications	Range
Thermal Module	
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays
IR Resolution	640 x 512 (327,680 pixels)
Super Resolution	1,280 x 960 (1,228,800 pixels)
Pixel Pitch	17μm
Spectral Range	8μm to 14μm
NETD	< 35 mK (@ 25 °C, F#=1.0)
Focal Length	25mm
Field of View	25° x 19°
Image Frequency	50Hz
Focus	Continuous Autofocus/Autofocus/Manual Focus/Laser Assisted Focus
IFOV (Spatial Resolution)	0.68 mrad
Aperture	F1.1
Minimum Focus Distance	0.3m (0.98ft)
Optical Module	
Picture Resolution	Configurable: 2 MP, 5 MP, 8 MP
Video Resolution	640 x 480
Focus	Fixed
FOV	25° x 19°
Image Display	
Display	800 x 480 resolution, 4.3” LCD touch screen
Color Palettes	Black hot, White hot, Red hot, Rainbow, Ironbow, Fusion, Rain
Digital Zoom	Thermal: 1x, 2x, 4x, 8x
Image Modes	Thermal/Optical/Fusion image/Picture in Picture
Picture in Picture	Thermal Picture in Optical Picture
Fusion	Thermal Picture and Optical Picture Combined
Record Video	Support on-board video recording
Measurement and Analysis	
Object Temperature Range	-20 °C to 650 °C (-4 °F to 1202 °F)
Accuracy	Max (±2°C/3.6°F, ±2%)
Measurement Presets	Center Spot, Hot Spot, Cold Spot, Off
Point	10 User Presets
Line	1 User Presets
Area	3 User Presets
High Temperature Alarm	Audible Warning
Color Alarn (Isotherm)	Above/Below/Interval/Insulation
Storage	
Storage Media	Removable Micro SD Card (64 GB)
Image Storage Capacity	60,000 Images
Image File Format	JPEG with Measurement Data Included
Video Storage Capacity	54 Hours



The GAZELLE G9706 Advanced Thermal Imager is packed with the high-performance features needed for fast and accurate surveying of high-voltage, hazardous targets, to safely and quickly diagnose hotspots that could lead to electrical and mechanical failures. If you are new to thermal imaging or if your camera is being used by a team with varying levels of thermal imaging experience, the G9706 offers a unique combination of 640 x 512 thermal resolution and field of view that allows even a novice thermographer to capture crisp and vibrant images and diagnose critical issues before they lead to system failures. Equipped with both manual and autofocus, you can target areas as close as 6in, or focus on larger areas from a greater distance.

With temperature measurements up to 650°C, it helps quickly and accurately identify temperature problems in most industrial environments. The intuitive touch screen visual interface allows you to easily navigate the device and diagnose issues with sharper onscreen images, thanks to the 800 x 480 screen resolution. The G9706 also comes with an optional interchangeable lens covering the complete coverage of near and distant targets with 0.5x wide angle, as well as 2x and 3x zoom options.

Package Includes

- Quick Start Guide
- Micro SD Card
- Type-C Cable
- Battery
- Box
- Hand Strap
- CVBS Cable
- Charging Base
- Tools Package
- Lens Cover

THERMAL IMAGER, 192X144P

G9701PRO

Specifications	Range
Thermal Module	
Image Sensor	Uncooled Focal Plane Arrays
Resolution	25Hz: 192 x 144 (thermal resolution) I 384 x 288 (super resolution)
Pixel Pitch	17μm
Response Waveband	8μm to 14μm
NETD	< 40 mk (@ 25 °C, F#=1.0)
Field of View	25° x 18.7°
Focal Length	6.2mm (Manual Focus)
IFOV	2.74 mrad
Aperture	F 1.1
Optical Module	
Picture Resolution	Configurable: 2 MP, 5 MP, 8 MP
Video Resolution	640 x 480
Image Display	
Monitor	640 x 480 resolution, 3.5" LCD touch display
Palettes	Black hot, White hot, Red hot, Rainbow, Ironbow, Fusion, Rain
Digital Zoom	Thermal: 1x, 2x, 4x
Thermal / Optical	Thermal/Optical/Fusion image/Picture in Picture
Picture in Picture	Support Thermal View in Optical View
Fusion	Support (Thermal View and Optical View Combined)
Record Video	Support on-board video recording
Thermography	
Rules	Max. Temperature; Min. Temperature; Center Temperature; Custom Point/Line/Area Thermography
Range	-20 °C to 550 °C (-4 °F to 1022 °F)
Accuracy	Max (±2 °C, ±2%)
Battery	
Battery Type	Dismountable and rechargeable Li-ion Battery
Battery Operating Time	5 hours in normal temparature, with Wi-Fi, Bluetooth, and supplement light off 4 hours in normal temparature, with Wi-Fi, Bluetooth, and supplement light on
Functions	
Laser Light	Support (Point to the thermography target)
Storage	Built-in memory module (16 G)
Photo	Thermal/Optical/Fusion Image
Video	Thermal/Optical/Fusion Image
Lighting	Support
Wi-Fi	Support



FUNCTIONS

- **Thermography**

Device detects the real-time temperature and display it on the screen.

- **Storage**

Device is equipped with built-in memory module to store recorded videos, captured snapshots, and important data.

- **Fusion**

Device can display fusion of thermal view and optical view.

- **Palette and Alarm**

Device supports multiple palettes, and you can set the palette mode according to the alarm function.

- **LED Light**

LED Light supplement makes the device a torch in required scenarios.

- **Laser Light Supplement**

Long-distance laser light supplement to point the thermography target.

Package Includes

- User Manual
- Power Adapter Kit
- USB Cable
- G9701-CHA Charging Dock
- G9701-BAT Battery
- Wrist Strap
- Hard Carry Case

LI-ION BATTERY FOR G9701

G9701-BAT

Specifications	Range
Battery Type	Lithium Battery
Battery Voltage	3.7V
Battery Capacity	5000mAh



BATTERY CHARGING DOCK FOR G9701

G9701-CHA

Specifications	Range
Power Input	100~240V/0.7A
Power Output	12V/2A



DETECT EVERY LEAK. PROTECT EVERY SYSTEM.

Dual-Pressure Testing
for Complete Duct Leakage Assessment

Tests ductwork under both positive and negative pressure.

Automatic Compliance Evaluation
Instant Pass/Fail Confirmation

Quickly verifies duct sealing against selected requirements.



Built-In Data Management
Store and Review Test Results

Saves up to 1,000 measurements for later reference.

Wide Airflow Range
Low and High-Flow Testing

Measures airflow from 4 to 640 m³/h.

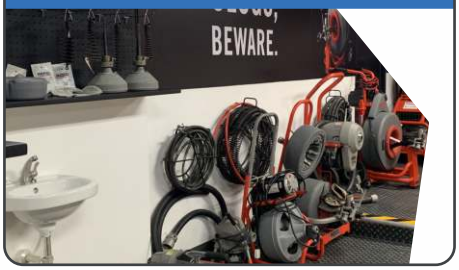
High-Precision Measurement
Reliable Leakage and Pressure Readings

Provides accurate airflow and static pressure measurements.

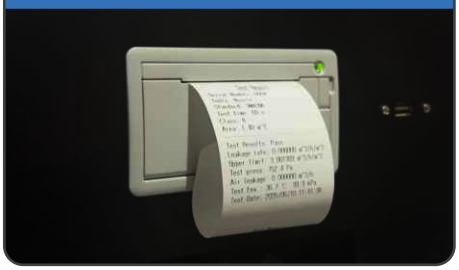
Standards-Compliant Testing
Professional Testing with Traceability

Supports major international standards and includes a calibration certificate.

VIVID TOUCHSCREEN DISPLAY
Clear Viewing and Simple Control



INSTANT REPORT PRINTING
On-Site Test Documentation



PROTECTED SENSOR COMPARTMENT
Safe Accessory Storage



WATER LEAK DETECTOR, 50–5000HZ

G9801

Specifications	Range
Display mode	320x240 LCD
Processor	144 MHz, 32-bit
Sound Receiving Device	Dedicated Aviation Headphones
Working Mode	Audio column display mode and leakage distribution recording mode
Input Impedance	1MΩ
Output Impedance	6~16Ω
Magnification	140dB Adjustable
Frequency Range	50~5000Hz
Signal Strength Display	0~99
Distortion	<1%
Usage Environment	Temperature: -20°C to +70°C, Humidity: 0% to 95% non-condensing
Power Supply	Rechargeable lithium battery, with a usage time of 15 hours
Size	200 x 135 x 72mm
Weight	0.85kg



Package Includes

- Outdoor Sensor
- Earphone
- Silent Handle
- Grounding Extension Rod
- Strong Magnetic Iron Separator
- Charger

DUCT AIR LEAKAGE TESTER

G9802

Specifications	Range
Air Flow	
Range	(Matrix): 36 ~640 m³/h
	(Nozzle): 4 ~ 36 m³/h
Accuracy	±2.5% of the reading ±0.1 m³/h
Resolution	0.01 m³/h
Static Pressure	
Range	±2500 Pa
Accuracy	1% ±1 Pa of the reading
Resolution	0.1 Pa
Temperature	
Range	0~60°C
Accuracy	±0.5°C
Resolution	0.1°C
Atmospheric Pressure	
Range	70~130k Pa
Accuracy	±2% of the reading
Resolution	0.1k Pa
Power Supply	
G9802-0E	100-120V, 1 Phase, 50/60Hz, 16A
G9802-1E	200-240V, 1 Phase, 50/60Hz, 10A
Features	
Weight	Net weight approximately 72kgs
Net weight approximately 60kg	54 x 50 x 120 cm
Data Logging	Up to 1000 measurements



Package Includes

- Operating Manual
- Duct Connection Hose
- 6 x 4m Silicone Tube (blue)
- Calibration Certificate
- Low Flow Nozzle
- Power Cord
- Storage

DUCT AIR LEAKAGE TESTER WITH BUILT-IN PRINTER

G9803

Specifications	Range
Air Flow	
Range	(Matrix): 36~640m³/h
	(Nozzle): 4~36m³/h
Accuracy	The reading is ±2.5% ±0.1m³/h
Resolution	0.01m³/h
Static Pressure	
Range	±2500 Pa
Accuracy	Readings are 1% ±1 Pa
Resolution	0.1 Pa
Temperature	
Range	0～60ºC
Accuracy	±0.5ºC
Resolution	0.1ºC
Atmospheric Pressure	
Range	70～130k Pa
Accuracy	Readings are ±2%
Resolution	0.1k Pa
Power Supply	
G9803-0E	100-120V, 1 Phase, 50/60Hz, 16A
G9803-1E	200-240V, 1 Phase, 50/60Hz, 10A
Features	
Weight	Net weight approximately 72kgs
Net weight approximately 60kg	98 x 63 x 63cm
Data Logging	Up to 1000 measurements



Package Includes

- Operating Manual
- Duct Connection Hose
- 6 x Silicone Tube (white)
- 6 x Silicon Tube (blue)
- 6 x Silicon Tube (red)
- Low Flow Nozzle
- Flow Grid
- Power Cord
- Container
- Calibration Certificate