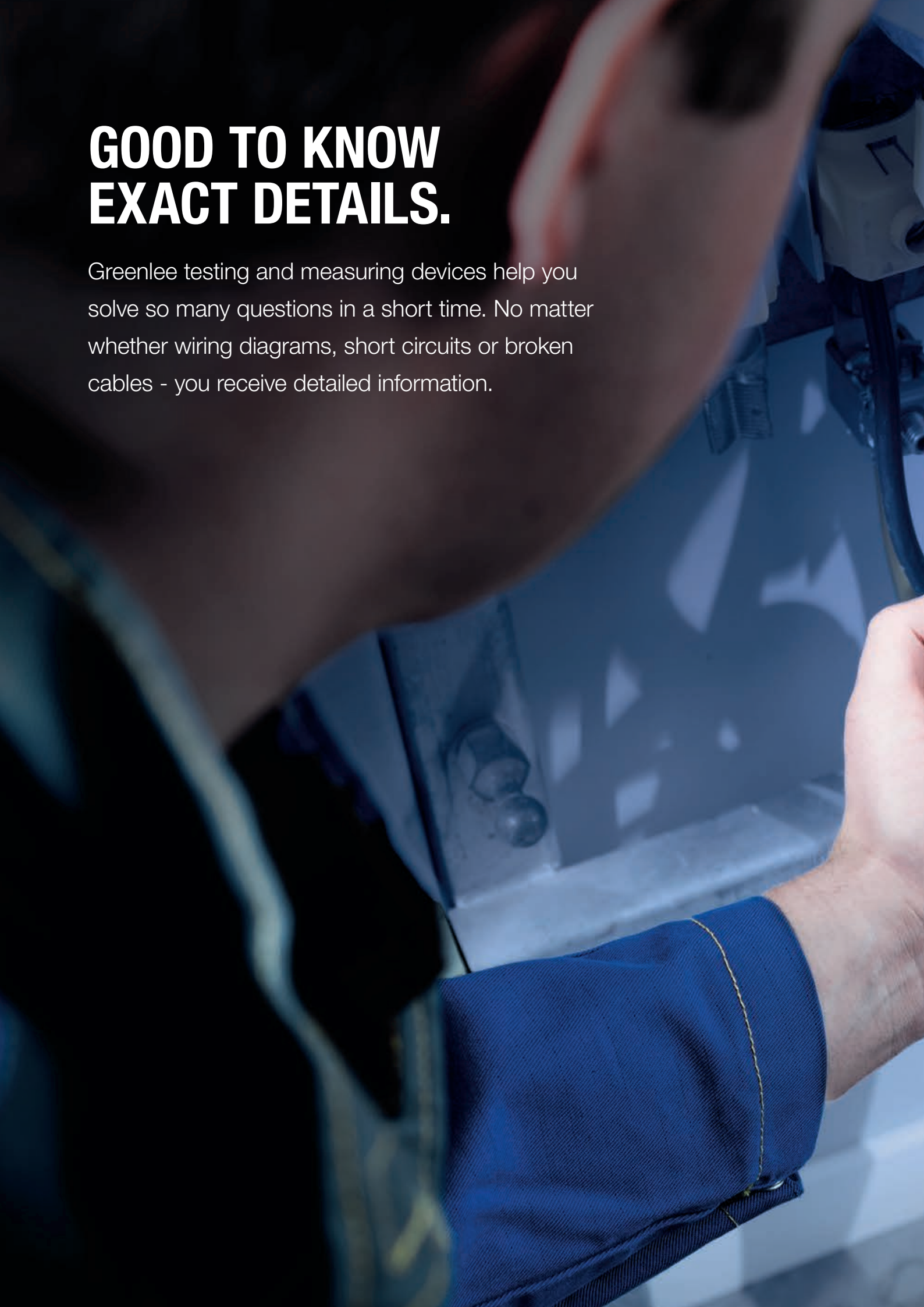


GOOD TO KNOW EXACT DETAILS.

Greenlee testing and measuring devices help you solve so many questions in a short time. No matter whether wiring diagrams, short circuits or broken cables - you receive detailed information.





Testing and measuring instruments

Voltage testers	576
Digital multimeter	580
Digital clamp meters	588
Test and measuring instruments for medium and high voltage	594
Temperature measuring devices	602
Cable and conductor identifiers	606
Network measuring devices and testers	610



IMMEDIATELY TO HAND – VOLTAGE TESTERS

Greenlee voltage testers - whether contactless or two-pole - are practically immediately to hand. Always to hand in pocket format, they measure voltages from 5 V to 1000 V AC and 12 V to 750 V AC/DC. If voltage is present, the tester emits an acoustic or optical signal as a warning. Ergonomically-shaped handles ensure the best grip, even when used outdoors. Stay safe with our Greenlee brand.



In brief

- ▶ Practical pocket format
- ▶ Automatic warning signals when voltage is present
- ▶ Also for contactless detecting
- ▶ Suitable for outdoor use



► Contactless measuring with the GT-16

The GT-16 is the practical pen-shaped voltage tester. Automatic signalling in case of voltage and an integrated self-test make the GT-16 a tester with maximum user safety.

- Readily detects broken cables
- Maximum safety through CAT IV 1000 V
- Integrated self-test for optimum safety
- Optical and acoustic signal in case of voltage
- Select from various voltage levels via adjustable sensitivity
- Ergonomic handle
- Limited Lifetime Warranty



► Two-pole measuring with the GT-85NE

The Greenlee GT-85NE is the ideal solution for voltages from 12 V to 750 V AC/DC. Able to withstand adverse operating conditions.

- | | |
|---|--|
| <ul style="list-style-type: none"> ■ Wider AC and DC voltage measurement range ■ Acoustic signal with voltages maximises safety ■ Automatic phase sequence indicator | <ul style="list-style-type: none"> ■ Water and dust proof ■ Drop-resistant from 1 m ■ Suitable for outdoor use ■ Limited Lifetime Warranty |
|---|--|



GT-12A Contactless voltage tester 50 - 1000 V



Characteristics

- Contactless voltage testing
- Clear LED and acoustic warning signal when the voltage has been determined
- ON/OFF switch provides longer battery service life
- Handy pen format, which fits easily into a jacket or tool pocket
- Fast, easy replacement of batteries
- Automatic self test

Technical data

Frequency range	50 - 500 Hz
Voltage range	50 - 1000 V AC
Measuring category	CAT IV 1000 V

Item	Part No.	
GT-12A Contactless voltage tester 50 - 1000 V	52063422	
Scope of supply	Part No.	Page
Battery 2 x 1.5 V AAA		

GT-16 Adjustable, contactless voltage tester 5 - 1000 V



Characteristics

- Contactless voltage testing
- Clear LED and acoustic warning signal when the voltage has been determined
- ON/OFF switch provides longer battery service life
- Handy pen format, which fits easily into a jacket or tool pocket
- Optimum handling due to ergonomically-shaped handle
- Fast, easy replacement of batteries
- Automatic self test
- Adjustable sensibility by rotary switch

Technical data

Frequency range	50 - 500 Hz
Voltage range	5 - 1000 V AC
Measuring category	CAT IV 1000 V

Item	Part No.	
GT-16 Adjustable, contactless voltage tester 5 - 1000 V	52033580	
Scope of supply	Part No.	Page
Battery 1 x 1.5 V AAA		



GT-55NE Bipolar voltage tester with LED display



Characteristics

- LED Display 12, 24, 50, 120, 230, 400, 750 V AC/DC
- Power LED for measuring point illumination
- Display of AC and DC voltage
- Bipolar rotary field testing
- Unipolar phase testing, optical and acoustic
- Continuity check, optical and acoustic
- Drop proof from 1 m
- Polarity indicator, loud beeper
- IP2X contact protection
- IP65 - splash water proof and dust tight

Technical data		
Frequency range	45 - 65 Hz	
Voltage range	12 - 750 V AC/DC	
Measuring category	CAT III 1000 V, CAT IV 600 V	
Item	Part No.	
GT-55NE Bipolar voltage tester with LED display	52049408	
Scope of supply	Part No.	Page
Battery 2 x 1.5 V AAA		
Accessories	Part No.	Page
TC-30 Nylon carrying case for measuring instruments with belt loop	50075365	593
Replacement tips	52034234	

GT-85NE Bipolar voltage tester with LCD display



Characteristics

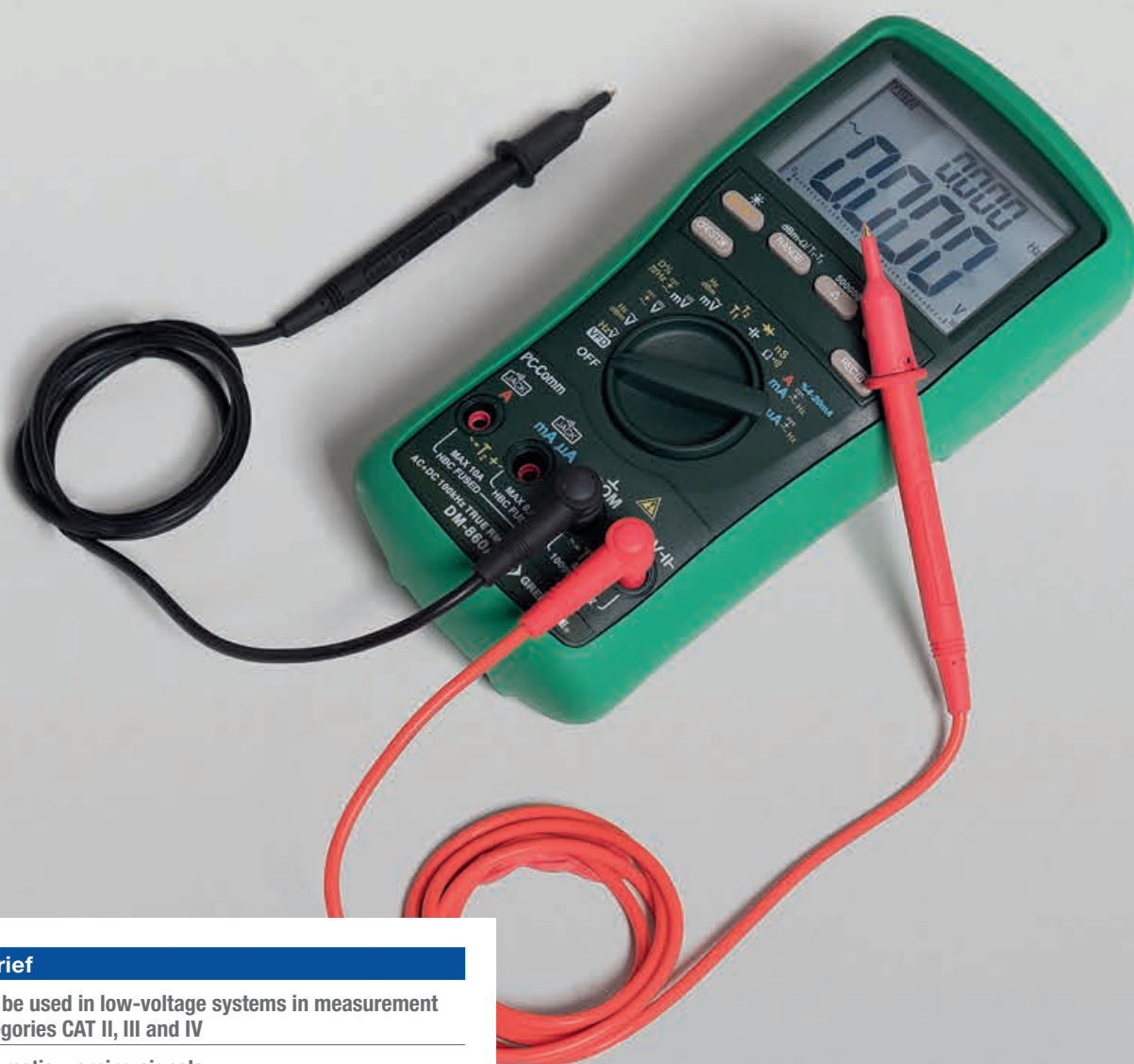
- LC display with backlit display
- Resistance measurement to 2 K Ω
- Power LED for measuring point illumination
- Display of AC and DC voltage
- Bipolar rotary field testing
- Unipolar phase testing, optical and acoustic
- Continuity check, optical and acoustic
- Drop proof from 1 m
- Polarity indicator, loud beeper
- IP2X contact protection
- IP65 - splash water proof and dust tight

Technical data		
Voltage range	12 - 750 V AC/DC	
Resistance	0 - 2 K Ω	
Frequency measurement	30 - 999 Hz	
Measuring category	CAT III 1000 V, CAT IV 600 V	
Item	Part No.	
GT-85NE Bipolar voltage tester with LCD display	52049407	
Scope of supply	Part No.	Page
Battery 2 x 1.5 V AAA		
Accessories	Part No.	Page
TC-30 Nylon carrying case for measuring instruments with belt loop	50075365	593
Replacement tips	52034234	



VERSATILE IN USE – DIGITAL MULTIMETER

Greenlee multimeters are highly versatile. The functions are geared to your tasks in low-voltage systems. The multimeters measure on phase shift controllers, test conductors for breaks and indicate results in measurement categories CAT II, III and IV. To evaluate and archive the measurements, connect the devices to your PC via a USB cable. Select one multimeter for all tasks.



In brief

- ▶ Can be used in low-voltage systems in measurement categories CAT II, III and IV
- ▶ Automatic warning signals
- ▶ Also for true RMS measurements
- ▶ Contactless voltage testing



► Basic: Multimeter DM-510A

The DM-510A performs all elementary functions. This is the basic meter for every qualified electrician.

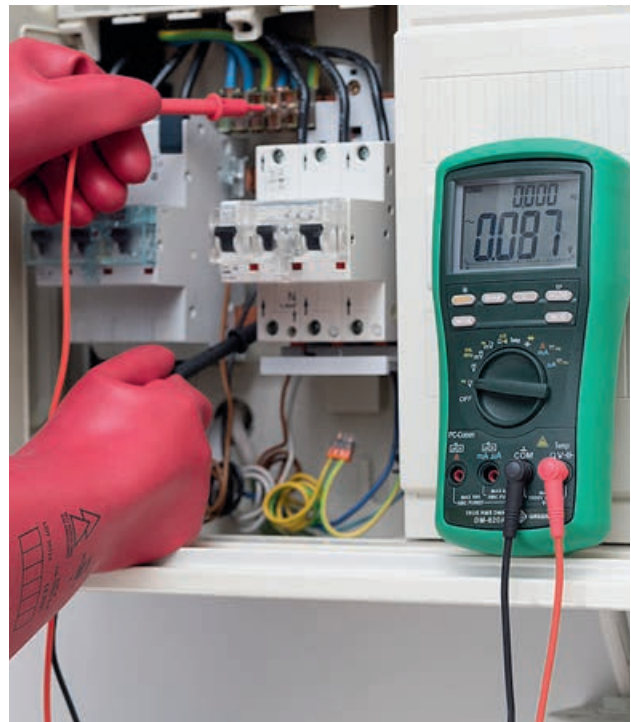
- Suitable for industrial electricians and in building installations
- Integrated contactless voltage tester for locating broken cables
- Temperature measurement function via a thermocouple type K (included in the scope of supply) for checking air-conditioning systems in control cabinets or buildings
- Elementary functions for trouble shooting



► Industrial application: Multimeter DM-820A

Equipped with true RMS measurement (TRMS function), the DM-820A can also measure non-sinusoidal voltages and currents precisely and reliably. The multimeter knows immediately if measuring lines are incorrectly connected and sends a warning signal and error message on the display.

- Can be used in all low-voltage systems in measurement category CAT IV 1000 V
- Measurements on frequency converters, phase shift controls and mains units without disruptions by voltage peaks
- Integrated TRMS function for measuring non-sinusoidal voltages and currents
- Automatic “Beep Jack” warning signal and optical signal on the display when measuring lines are incorrectly connected



► For dual displays: Multimeter DM-860A

Perfect for troubleshooting in electrical systems: The DM-860A allows you to measure and display two measurements at the same time. Saving time and providing an overview. All values are easily legible on the large white display. The DM-860A withstands voltage peaks of up to 12,000 V.

- Extra large display for easy reading
- Dual display: Two measurements can be displayed at the same time
- Measurement category CAT IV 1000 V offers the best-possible safety
- Loop current function: Displays faults in measurement and control equipment



PDMM-20 Pocket digital multimeter



Characteristics

- AC/DC voltage measurement
- Resistance measurement
- Acoustic continuity check
- Contactless voltage testing

Technical data		
Dimension	113 x 53 x 13 mm	
Weight	0.08 kg	
Display	LCD, 6000	
Capacitance	up to 100 μ F	
Voltage measurement	1 mV - 450 V	
Resistance	0.001 k Ω - 6 M Ω	
Frequencymeasurement	10 Hz - 30 kHz	
Measuring category	CAT II 450 V, CAT III 300 V	
Item	Part No.	
PDMM-20 Pocket digital multimeter	50116894v2	
Scope of supply	Part No.	Page
Protective cover		
Test leads		
Battery 3V button cell		

DM-200A Digital multimeter



Characteristics

- Contactless voltage testing
- Automatic and manual range selection
- Large, background lit LC display
- Auto off
- Analogue bar chart
- Optical and acoustic warning in the event of incorrect handling

Technical data		
Dimension	161 x 80 x 50 mm	
Weight	0.34 kg	
Display	LCD, 6000	
Voltage measurement	0.01 mV - 1000 V AC/DC	
Current measurement	0.1 μ A - 8 A AC/DC	
Resistance	0.1 Ω - 60 M Ω	
Frequencymeasurement	10 Hz - 50 kHz sinus wave; 5 Hz - 1 MHz square wave logic level	
Measuring category	CAT II 1000 V, CAT III 600 V, CAT IV 300 V	
Interface	R>S232, USB	
Item	Part No.	
DM-200A Digital multimeter	52047801V2	
Scope of supply	Part No.	Page
TSG-3 test leads	50120344	
Protective cover		
Battery 2 x 1.5 V AAA		



DM-210A Digital multimeter for temperature measurement -50 °C up to +1000 °C



Characteristics

- Includes thermoelement
- Automatic and manual range selection
- Large, background lit LC display
- Automatic shut-off
- Analogue bar chart
- Optical and acoustic warning in the event of incorrect handling

Technical data		
Capacitance	60 nF - 3000 µF	
Voltage measurement	0.01 mV - 1000 V AC/DC	
Current measurement	0.1 µA - 8 A AC/DC	
Resistance	0.1 Ω - 60 MΩ	
Frequencymeasurement	10 Hz - 50 kHz sinus wave; 5 Hz - 1 MHz square wave logic level	
Measuring category	CAT II 1000 V, CAT III 600 V, CAT IV 300 V	
Temperature measurement	-50 °C up to +1000 °C	
Item	Part No.	
DM-210A Digital multimeter for temperature measurement -50 °C up to +1000 °C	52047802V2	
Scope of supply	Part No.	Page
TSG-3 test leads	50120344	
Protective cover		
Battery 2 x 1.5 V AAA		

SAFETY FIRST !

Think about your safety and protect yourself from overvoltages
in electrical systems!

Wear safety gloves to
DIN EN 60903 and safety glasses!
(page 519)





DM-510A Digital multimeter, True RMS



Characteristics

- Autocheck function permits the automatic selection of AC V / DC V or resistance with low impedance for ghost-voltage removal
- Contactless voltage detection
- Frequency, temperature and capacity measurement
- Automatic and manual range selection
- Large, background lit LC display
- Max / Min value memory
- Analogue bar chart
- Optical and acoustic warning in the event of incorrect handling

Technical data

Frequency range	50 Hz - 400 Hz
Capacitance	60 nF - 3000 μ F
Voltage measurement	0.01 mV - 1000 V AC/DC
Current measurement	0.1 μ A - 8A AC/DC
Resistance	0.1 Ω - 60 M Ω
Frequency measurement	5 Hz - 1 MHz
Measuring category	CAT III 600 V; CAT II 1000 V; CAT IV 300 V
Temperature measurement	-50 $^{\circ}$ C up to +1000 $^{\circ}$ C

Item	Part No.
DM-510A Digital multimeter, True RMS	52047803V2

Scope of supply	Part No.	Page
TSG-3 test leads	50120344	

Temperature sensor, bright finish

Battery 2 x 1.5 V AAA

Accessories	Part No.	Page
TC-20 Nylon carrying case for measuring instruments with carrying strap	50075357	587



DM-810A Digital multimeter, True RMS



Characteristics

- Automatic and manual range selection
- Large, background lit LC display
- Two measured values at a glance
- TRMS AC + DC
- Optical and acoustic warning in the event of incorrect handling

Technical data		
Capacitance	0.01 nF - 25 mF	
Voltage measurement	0.01 mV - 1000 V AC/DC	
Current measurement	0.1 µA - 10 A AC/DC	
Resistance	0.1 Ω - 60 MΩ	
Frequencymeasurement	5 Hz - 1 MHz	
Measuring category	CAT IV, 1000 V	
Item	Part No.	
DM-810A Digital multimeter, True RMS	52047805V2	
Scope of supply	Part No.	Page
TSG-3 test leads	50120344	
TC-20 Nylon carrying case for measuring instruments with carrying strap	50075357	587
Battery		

DM-820A Digital multimeter, True RMS



Characteristics

- Contactless voltage detection
- Recording of peak value (5 ms peak hold) max, min and max/min results
- Automatic and manual range selection
- Large, background lit LC display
- Automatic shut-off
- TRMS AC + DC
- Optical and acoustic warning in the event of incorrect handling

Technical data		
Capacitance	0.01 nF - 25 mF	
Voltage measurement	0.01 mV - 1000 V AC/DC	
Current measurement	0.1 µA - 10 A AC/DC	
Resistance	0.1 Ω - 60 MΩ	
Frequencymeasurement	5 Hz - 1 MHz	
Measuring category	CAT IV, 1000 V	
Temperature measurement	-50 °C up to +1000 °C	
Item	Part No.	
DM-820A Digital multimeter, True RMS	52047806V2	
Scope of supply	Part No.	Page
TSG-3 test leads	50120344	
TC-20 Nylon carrying case for measuring instruments with carrying strap	50075357	587
Battery		
Temperature sensor, bright finish		



DM-860A Industrial digital multimeter, True RMS



Characteristics

- Capturing Max, Min and Max-Min results
- Recording of peak value (5 ms peak hold) max, min and max/min results
- Carrying out frequency, temperature and capacity measurements as well as diode tests and continuity checks
- Display of the relative measured value offset for checking the relative measured value changes
- Automatic range selection
- Analogue 41-segment bar chart
- Large, background lit LC display
- Temperature measurements to 1000 °C

Technical data		
Capacitance	50 nF - 9999 µF	
Voltage measurement	500 mV - 1000 V	
Current measurement	500 µA - 10 A	
Resistance	500 Ω - 50 MΩ	
Frequency measurement	5 Hz - 200 kHz sinus wave; 5 Hz - 2 MHz square wave logic level	
Measuring category	CAT IV 1000 V	
Temperature measurement	Type-K, -50 °C up to +1000 °C (-58 °F up to +1832 °F)	
Item	Part No.	
DM-860A Industrial digital multimeter, True RMS	52056268V2	
Scope of supply	Part No.	Page
TSG-3 test leads	50120344	
TC-20 Nylon carrying case for measuring instruments with carrying strap	50075357	587
Temperature sensor, bright finish		



TC-20 Nylon carrying case with carrying strap for measuring instruments



Characteristics

- With inner pocket for test leads

Suitable for

- Series 200, Series 500 and Series 800 measuring instruments

Item	Part No.
TC-20 Nylon carrying case for measuring instruments with carrying strap	50075357

CONTACTLESS MEASUREMENTS - DIGITAL CLAMP METERS

Quality evident in use. In practice, not every current circuit can be disconnected. Greenlee clamp meters measure currents and voltages without contact. AMP-TIP™ technology permits precise measurements even in confined areas. Numerous functions - one quality.



In brief

- ▶ Measure without disconnecting the cable
- ▶ Suitable for confined areas
- ▶ Easily legible display
- ▶ Contactless measurements to 600 A



► For alternating currents to 600 A

The CM-660 is a real lightweight. 185 g lies firmly in the hand thanks to a good grip. Convenient readily legible measurements.

- Contactless measurement of alternating currents up to 600 A
- Sensor for contactless voltage tests
- Lightweight construction saves weight in the tool case
- Built-in deep-pass filter for the most accurate measurements
- Hand grip guarantees very good handling



Expanded functions

The CM-960 is the model that performs several functions. It measures alternating and direct current to 600 A, also non-sinusoidal currents and voltages thanks to the TRMS function (true root mean square).

- Contactless measurement of alternating and direct currents up to 600 A
- Detect voltages without contact
- AMP-Tip technology for precise measurements up to 16 mm² conductor cross-section
- The backlit display guarantees very good legibility



CM-450 Digital clamp meter



Characteristics

- Compact, ergonomic design for measuring in tight spaces
- Data hold function for recording important measurement results
- Acoustic continuity check

Technical data		
Display	LCD	
Current measurement	0.01 A - 400 A AC	
Measuring category	CAT III 600 V	
Jaw size	26 mm	
Item	Part No.	
CM-450 Clamp multimeter	52033579V2	
Scope of supply	Part No.	Page
Battery 3 V button cell		
Test leads		

CM-660 Digital clamp meter



Characteristics

- Contactless voltage testing
- AMP TIP™
- Data hold function for recording important measurement results
- Intelligent Automatic Power OFF (APO)
- Record mode for Max/Min/Average

Technical data		
Display	LCD	
Continuity test	yes	
Voltage measurement	0 V - 600 V AC/DC	
Current measurement	0.1 A - 600 A AC	
Resistance	0.1 Ω - 60 k Ω	
Measuring category	CAT III 600 V, CAT IV 300 V	
Jaw size	30 mm	
Item	Part No.	
CM-660 Digital clamp meter	52066379	
Scope of supply	Part No.	Page
TSG-3 test leads	50120344	
Battery 2 x 1.5 V AAA		



CM-860 Digital clamp meter



Characteristics

- Particularly suitable for measurements on frequency converters
- Measurement of alternating voltage and alternating current
- Illuminated display
- Longer battery life due to intelligent automatic power-off

Technical data		
Display	LCD	
Voltage measurement	0 V - 600 V AC/DC	
Current measurement	0.1 A - 600 A AC	
Resistance	0.1 - 60 kΩ	
Measuring category	CAT III 600 V, CAT IV 300 V	
Jaw size	30 mm	
Item	Part No.	
CM-860 Digital clamp meter	52066378	
Scope of supply	Part No.	Page
TSG-3 test leads	50120344	
Battery 2 x 1.5 V AAA		

CM-960 Digital clamp meter



Characteristics

- Jaw opening 51 mm
- Current measurement AC/DC
- Easy-to-read backlit display for poor lighting conditions
- Peak hold and data hold function for recording measurement results
- Automatic range selection
- Relative zero point mode
- Use of bright conductor

Technical data		
Display	LCD	
Voltage measurement	0 - 600 V AC/DC	
Current measurement	0 - 600 A AC/DC	
Frequency measurement	5 Hz - 999 Hz	
Measuring category	CAT III 600 V, CAT IV 300 V	
Jaw size	35 mm	
Item	Part No.	
CM-960 Digital clamp meter	52066376	
Scope of supply	Part No.	Page
TSG-3 test leads	50120344	
Battery 2 x 1.5 V AAA		



CM-1360 Digital clamp meter



Characteristics

- True RMS actual effective value for the most precise measurements
- Illumination of the measuring point
- Easy-to-read backlit display for poor lighting conditions
- Acoustic continuity check
- Longer battery life due to intelligent automatic power-off
- Data hold function for recording measurement results

Technical data

Display	LCD
Voltage measurement	0 - 1,000 V AC/DC
Current measurement	0 - 1,000 A AC/DC
Resistance	0.1 - 60 k Ω
Measuring category	CAT III 1,000 V, CAT IV 600 V
Jaw size	51 mm

Item	Part No.	
CM-1360 Digital clamp meter	52066374	
Scope of supply	Part No.	Page
TSG-3 test leads	50120344	
TC-30 Nylon carrying case for measuring instruments with belt loop	50075365	593
Battery 2 x 1.5 V AAA		

CM-1560 Digital clamp meter



Characteristics

- Jaw opening 51 mm
- True RMS actual effective value for the most precise measurements
- Particularly suitable for measurements on frequency converters
- Easy-to-read backlit display for poor lighting conditions
- Diode test
- Acoustic continuity check
- Illumination of the measuring point

Technical data

Display	LCD
Voltage measurement	0 - 1,000 V AC/DC
Current measurement	0 - 1,000 A AC/DC
Frequency measurement	5 Hz - 999 Hz
Measuring category	CAT III 1,000 V, CAT IV 600 V
Jaw size	51 mm

Item	Part No.	
CM-1560 Digital clamp meter	52066372	
Scope of supply	Part No.	Page
TC-30 Nylon carrying case for measuring instruments with belt loop	50075365	
TSG-3 test leads	50120344	593
Battery 2 x 1.5 V AAA		



TC-30 Nylon carrying case for measuring instruments with belt loop

Suitable for

- CM-1360 / CM-1560
- Voltage tester GT-55NE / GT-85NE



Item	Part No.
TC-30 Nylon carrying case for measuring instruments with belt loop	50075365

PREDICTABLE SAFETY: MEASURING DEVICES FOR THE MEDIUM AND HIGH VOLTAGE SECTORS

HDE stands for optimised safety. For over 75 years now, the company has tested and developed products for safe and efficient handling of medium and high voltages. Equipment and supply systems in the medium and high voltage sector can be tested accurately, safely and reliably with HDE products.



In brief

- ▶ V-Watch automatically warns of hazardous voltage
- ▶ Phase and voltage tester in one device
- ▶ Voltage display via audible and visual signal
- ▶ Suitable for catenary lines
- ▶ Simple operation



► Watches over you: V-Watch

The V-Watch voltage detector from HDE warns of hazardous electrical voltages. The nearer you get to the hazard through electric flashovers, the greater the frequency of the optical and acoustic alarm. The warning signal is preset at a measurement of 4 kV at 2 m distance. The safe distances can also be set in the factory. The V-Watch increases your personal safety when working in environments exposed to electrical voltages.

- Contactless detection of electrical voltages and electrical fields from 2.4 kV AC
- Active even when not switched on
- Warning via optical and acoustic

- Warning becomes more intensive the closer the device gets to the voltage source
- Values can be individually set
- Presetting: 4 kV at 2 m



► Numerous functions, one device

The DVM-80 is phase tester and voltmeter in one. Replaceable measuring tips make it suitable for checking the phase balance of catenary lines and transformers. The measurements are easy to read on the large display and even from a few meters away.

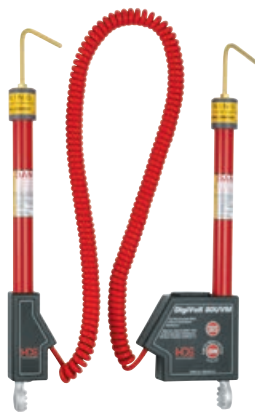
- For direct and alternating voltages to 80 kV
- Background-lit display when working at low light levels
- Large display is easy to read even from a distance
- Replaceable measuring tips
- Determining the phase balance on catenary lines and transformers

► Measurements to 2000 A

The measuring ranges of the HVA-2000 are adequate for all medium and high voltages: 2000 A alternating current (25-500 Hz) at a voltage of 500 kV does not present a problem. The measurements are easy to read on the large display and even from a safe distance of up to 10 m. The last 4 measurements can be saved, and so the device does not have to be removed from the conductor to obtain each result.

- Current to 2000 A AC at 25-500 Hz
- Can be used to 500 kV
- Automatically saves the last 4 measurements
- Large, illuminated display for better legibility from a great distance
- Simple operation using the one-button principle
- Field of vision is always towards the user

DVM-80 Universal voltage/phase tester



- ▶ Combination voltage and phase tester with two measuring tips
- ▶ Suitable for open wires and earth cables

Characteristics

- Digital kilovolt display
- Digital with backlit display
- Display accuracy of 1 %
- Peak hold function

Technical data

Frequency range	DC and AC up to 1000 Hz
Dimension	Length 460 mm
Ambient temperature	-25 °C to +55 °C
Weight	1.02 kg
Power supply system	9 V battery
Voltage measurement	5 V AC - 40 kV AC (5 V AC - 80 kV AC with add-on resistors)
Measurement accuracy	1 % / 2 % with add-on resistor

Item	Part No.	
Universal voltage/phase tester	DVM-80UVM/K65	
Scope of supply	Part No.	Quantity
Overhead Hook Probe	025-OLPS-5	2
Contact measuring tips	GCP-1	2
Two-pole functional tester	PT-5000B	1
Universal Hotstick Adapter (Shotgun)	HSA-2500	2
Robust carrying case	B-12	1
Battery 9 V		

Digital voltage display sets to 100 kV or 500 kV



- ▶ Large bright LED display
- ▶ Suitable for open wires and earth cables

Characteristics

- Acoustic signal when voltage present
- Voltage display enables distinction between rated and induced voltages
- Measuring tips for busbars and earth cable

Technical data	DVI100T50K02	DVI-500K02
Frequency range	50 Hz	50 Hz
Dimension	110 x 180 x 110 mm	110 x 180 x 110 mm
Ambient temperature	-40 °C to +49 °C	-40 °C to +49 °C
Weight	0.62 kg	0.62 kg
Power supply system	9 V battery	9 V battery
Voltage measurement	100 V AC to 100 kV AC	100 V AC to 500 kV AC
Measurement accuracy	10 %	10 %

Item	Part No.	
DVI-100 Digital voltmeter set	DVI100T50K02	
DVI-500 Digital voltmeter set	DVI-500K02	
Scope of supply	Part No.	Quantity
Overhead Hook Probe, 5 cm Diameter	HP-DVI-2	1
Overhead Hook Probe, 15 cm Diameter (only at 500 kV)	HP-DVI-6	1
Underground Bushing Probe, 15, 25 and 35 kV Class	IEP-DVI-5	1
Proof Tester for Digital Voltage Indicator	PT-DVI	1
Rugged Plastic Case	CS-DVI-5	1



Contactless voltage detectors sets to 4, 69 or 500 kV



- ▶ Battery with 15 min. fast charging for a useful life of more than one day
- ▶ Voltage display via an audible and visual signal
- ▶ Suitable for open wires

Characteristics

- Detection distance of 25 cm
- Two insulated probe connections - for insulated probes with universal coupling and hook insulated probes
- Detects voltages on angled test points

Technical data	PRX4220P	PRX69D220P	PRX-500220P
Frequency range	50 Hz / 60 Hz	50 Hz / 60 Hz	50 Hz / 60 Hz
Dimension	280 x 76 x 50 mm	280 x 76 x 50 mm	280 x 76 x 50 mm
Ambient temperature	-29 °C to +60 °C	-29 °C to +60 °C	-29 °C to +60 °C
Weight	0.31 kg	0.31 kg	0.31 kg
Power supply system	integrated battery	integrated battery	integrated battery
Voltage measurement	50 V AC to 4 kV AC	120 V AC to 69 kV AC	120 V AC to 500 kV AC

Item	Part No.
PRX-4 Contactless voltage detector kit	PRX4220P
PRX-69 Contactless voltage detector kit	PRX69D220P
PRX-500 Contactless voltage detector kit	PRX-500220P
Scope of supply	Part No.
Carrying Holster with Belt Clip and Restraining Strap	PRX-HS
Charge Cord with 12 V DC Automotive Jack	PRX-Cord
115 V AC transformer to plug PRX-CORD into 115 V AC - 240 V AC Wall outlet	PRX-XF
Carrying case	PRX-CS

LV-5 Stray voltage detector



- ▶ Detects stray voltages from 5 V AC
- ▶ Robust waterproof housing
- ▶ Suitable for e.g. street lights, wooden power pylons, meter housings and much more.

Characteristics

- Especially light, durable LED
- Integrated tester in the belt pocket

Technical data	
Frequency range	50 Hz / 60 Hz
Dimension	188 x 40 x 30 mm
Weight	0.176 kg
Power supply system	9 V block battery for tester, 2 x 1.5 V AA for LV-5
Voltage measurement	5 V AC up to 600 V AC, above 600 V AC contactless
Item	Part No.
LV-5 Stray voltage detector	LV-5K01
Scope of supply	Part No.
Proof Tester for LV-5	LV-PT
Holster for LV-5 and LV-PT	LV-HS

V-Watch personal voltage detector



- ▶ Warns the user from hazardous electrical voltages
- ▶ Contactless detection of electrical voltages and fields

Characteristics

- Alarm frequency increases the higher the voltage
- Audibly and optically increasing alarm frequency when approaching voltage-carrying plant components
- Warning distance at 4 kV AC is 2.13 m
- A customised warning distance can be factory-set if required
- Including carrying case for easy transportation

Technical data

Frequency range	50 Hz / 60 Hz
Dimension	94 x 73 x 31 mm
Ambient temperature	-29 °C to +49 °C
Weight	0.147 kg
Power supply system	9 V block battery for tester
Voltage measurement	from 2.4 kV AC

Item	Part No.
V-Watch personal voltage detector	VW-20HFR
Scope of supply	Part No.
Flame Resistant Carrying Case Lanyard	C-10FRVW

TILT II Transformer tester



- ▶ Quick testing of transformers for short circuits and wire breaks
- ▶ Simple one-button operating concept

Characteristics

- Tests the primary and secondary sides of voltageless transformers
- An alarm tone is signalled when an error is detected
- Especially light LED
- 3 test results are displayed
- With automatic self-test
- Magnetic holder

Technical data

Short	$\leq 10 \text{ Ohm}$
Open	$\geq 10 \text{ Ohm}$
Transformer O.K.	Minimum inductance 800 μH
Kondensator O.K.	Minimum capacitance 0.5 μF , Maximum capacitance 300 μF
Dimension	146 mm x 88 mm x 38 mm
Weight	0.51 kg
Power supply system	9 V battery for tester

Item	Part No.
TILT II Transformer tester	TL-AST-M
Scope of supply	Part No.
Padded Carrying Bag	B-8



HVA-2000 Digital ammeter for high voltages



- ▶ Large bright display
- ▶ Fast measurement results
- ▶ Suitable for free conductors and earthing cables up to 7 cm diameter

Characteristics

- Easy to handle thanks to small and light design
- Saves the last 4 measured values

Technical data

Frequency range	25 bis 500 Hz
Dimension	100 x 170 x 290 mm
Ambient temperature	-40 °C to +49 °C
Weight	0.8 kg
Power supply system	9 V battery
Voltage measurement	500 kV AC
Current measurement	2,000 A AC
Measurement accuracy	1 %

Item	Part No.
HVA-2000 Digital ammeter for high voltages	HVA-2000
Scope of supply	Part No.
Rugged Plastic Carrying Case	CS-HVA

IT-4 Insulation tester



- ▶ Detects invisible insulation defects
- ▶ Adjustable contact probes
- ▶ Suitable for all types of ceramic and porcelain insulators

Characteristics

- Easy to read thanks to LED display
- An audible signal is emitted in case of error
- Universal coupling for insulated probes
- Supplies fast, secure and reliable test results

Technical data

Weight	1.4 kg
Test voltage	10 kV DC
Power supply system	Rechargeable battery

Item	Part No.
IT-4 Insulation tester	IT-4220P
Scope of supply	Part No.
Standard Side Bent Test Probe	025-02035-SUB
Standard Side Straight Test Probe	025-02040-SUB
220 V AC Charging Adapter	050-02025-220V
Carrying Case	CS-IT4



RT-200 Rope tester



- ▶ Continuous testing of any rope or tape lengths
- ▶ Suitable for ropes with a diameter of 0.95 cm to 3.8 cm

Characteristics

- Dielectric state is displayed via a green LED (good) or a red LED (poor)
- An acoustic signal is emitted when a faulty rope section is detected
- Compact and light design
- Integrated battery

Technical data

Dimension 190 mm x 235 mm x 220 mm

Weight 1.27 kg

Power supply system Rechargeable battery

Item	Part No.
RT-200 Rope tester	RT-200220P

Scope of supply	Part No.
220 V AC Charging Adapter	050-02025-220V

Insulated probes



- ▶ No rotating of the tester owed to universal toothed coupling
- ▶ Suitable for all voltage/current testers from HDE

Characteristics

- Telescopic insulated probes with universal toothed coupling
- Variable length of telescopic insulated probe
- Including retention hooks

Item	Part No.
Insulated probes, 1.2 m	567-4
Insulated probes, 1.8 m	567-6
Telescopic insulated probes, max. 6 m	HV-220
Telescopic insulated probes, max. 10.6 m	HV-235



Watchman™



- ▶ Protect your employees by marking a safe work area or voltage-free work area
- ▶ Warns against hazardous voltages for lift cages and working platforms
- ▶ Can be used for construction machinery/vehicles to warn against medium and high voltage fields

Characteristics

- The Watchman™ protects you and your personnel by drawing visual attention to medium and high voltage fields
- Includes self test to guarantee functionality
- When the Watchman™ is switched on, the activity is displayed by a „Heartbeat“ illuminated signal
- The strong neodymium magnet enables the detector to be installed on the auxiliary bracket or on any other magnetic surface

Suitable for

- Save the working area
- Protection for your carlift or manlift in the medium and high voltage area
- Protection for trucks and construction machines in the medium and high voltage area

Material

- ABS UL 94-HB

Additional information

- The batteries have a life of 2 years storage, 1,000 hours standby / „heartbeat“ mode and 10 hours continuous voltage indication

Technical Data	
Frequency range	50 Hz / 60 Hz
Dimension	height: 36 mm
Ambient temperature	-29 °C up to +49°C
Weight	with battery: 0.227 kg
Diameter	9.7 cm
Power supply system	3 x AAA
Voltage measurement	> 2,400 AC
Article	Part No.
Watchman™	WM01

THERMAL MEASUREMENTS FROM A DISTANCE - TEMPERATURE GAUGES

Greenlee temperature gauges are ideal for preventive maintenance. Infra-red sensors measure without contact, even in confined areas. This allows the temperatures of motors and electrical connections to be measured and read from a safe distance. The measurements are used to identify fault sources in the electrical system.



In brief

- ▶ Contactless measurements, even in confined areas
- ▶ Limit values can be set
- ▶ Automatic warning signals when values deviate
- ▶ Single or dual laser to focus on the measuring range



► Accuracy counts

The TG-1000 can be used for temperatures from -60 °C to 550 °C. When the minimum and maximum values are entered, the user automatically receives an acoustic and optical warning signal if the values are overrun or underrun. Even from a distance of 1.2 m, the TG-1000 measures to an accuracy of 10 cm.

- Optimised measuring range for maintenance tasks
- Single laser for focussing on the measuring point
- Visual resolution 12:1 (measures from 1.2 m away at an accuracy of 10 cm)
- Acoustic and optical warning signal when set values for monitoring limit values are reached



► Double focus for the measuring range

The TG-2000 measures with more accuracy. It clearly marks your measuring range with the dual laser. The visual resolution of 16:1 ensures exact values. Even at a distance of 3.2 m, the temperatures of objects and conductors can be accurately measured to a range of 20 cm. As a result, the TG-2000 guarantees the optimum safe distance to the object being measured.

- Optimum measuring range for maintenance and fault analysis in electrical systems
- Dual laser for focussing on the measuring range
- Acoustic and optical warning signal when defined limit values are reached
- Connection point for thermocouple type K for temperature measurements with contact
- Emission ratio of all standard materials included in the operating instructions



TG-1000 Infrared thermometer



Characteristics

- Lower / upper limit values adjustable
- Display with background illumination for comfortable read-off in all work areas
- Temperature display selectable in Celsius (°C) or Fahrenheit (°F)
- Maximum/minimum temperature, difference and average measurements
- Twin laser for identification of the approximate diameters of the target measuring area
- Bush for type K thermocouple

Suitable for

- Preventative maintenance of switching devices, motors and electrical connections

Technical data

Monitor	LCD
Optical resolution	12:1
Temperature measurement	-60 °C up to +550 °C
Item	Part No.
TG-1000 Infrared thermometer	52059365

TG-2000 Dual laser infrared thermometer



Characteristics

- Lower / upper limit values adjustable
- Display with background illumination for comfortable read-off in all work areas
- Temperature display selectable in Celsius (°C) or Fahrenheit (°F)
- Maximum/minimum temperature, difference and average measurements
- Twin laser for identification of the approximate diameters of the target measuring area
- Bush for type K thermocouple

Suitable for

- Preventative maintenance of switching devices, motors and electrical connections

Technical data

Monitor	LCD
Optical resolution	16:1
Temperature measurement	-60 °C up to +625 °C
Item	Part No.
TG-2000 Dual laser infrared thermometer	52059364

TPB Temperature probe for temperatures of -40 °C to +204 °C



Technical data

Sensor length	1 m ±5 mm (39.4" ±0.2")
Temperature measurement	-40 °C up to +204 °C (-40 °F up to +399 °F)
Thermoelement	Thermocouple type K
Item	Part No.
TPB Temperature probe for temperatures of -40 °C to +204 °C	50075926



IDENTIFY CABLES AND CONDUCTORS WITHIN SECONDS

No time to loose when cables are connected incorrectly. Interruptions must be quickly rectified and cables and conductors must be correctly assigned. Greenlee cable and conductor identifiers provide the required data in the desired units in a matter of seconds. No time wasted with Greenlee.



In brief

- Evaluation in a matter of seconds
- Exact length determination from 5 m to 30 km
- Clear assignment of cables and conductors in the system



► The length gauge

No estimates, precise values for your inventory or stock taking. The CLM-1000E allows you to measure the exact length of the conductor or cable in a matter of seconds. From 5 m to 30 km, the gauge uses the material, the temperature and the cable thickness to measure the actual cable length.

- Measurements in a matter of seconds
- Measures cable and conductor lengths from 5 m to 30 km



- Suitable for copper and aluminium
- Suitable for AWG cross-sections and metric cross-sections
- Reliable measurements for stock taking and inventories
- Cables do not need to be cut to length
- No more time-consuming counting of cable coils required
- With pre-programmed settings

► The identifier

Identify the correct cable or the correct conductor right away with the Greenlee 701K-G. In systems without wiring diagrams or documentation, the wiring is assigned without a problem. Possible break points can be detected based on acoustic signals (warble tones).

- Identification of individual conductors or cables
- Adjustable warble tones for clear identification
- Range of up to 15 km
- Quickly locates break points
- Results within seconds





Classic Tone and Probe Kit 701K-G



Characteristics

- For identifying individual conductors or cables
- Tone generator with crocodile terminals and RJ-11 plug
- 3-colour LED display (identifies WS call voltages)
- Weather-resistant design
- Tone generator with interchangeable tips
- Selectable wobble tone
- Polarity test
- Continuity test

Item	Part No.
Classic Tone and Probe Kit 701K-G	52047869
Scope of supply	Part No.
High-power sound generator 77HPCE	52055781
Inductive amplifier 200 EP-G	52055782
Bag	50086839
Battery 9 V	

CLM-1000E cable length measuring device



- ▶ Saves time – no cutting to length or counting the cable coils
- ▶ Reliable measuring results for inventory management



Characteristics

- To determine cable lengths
- Measurement range between 5 m - 30 km
- Measurement range cross-section between 0.75 mm² - 500 mm² and 18 Kcmil - 1000 Kcmil
- Backlit display
- Hold function
- 20 pre-programmable settings for stranded wires Cl. 2 (DIN EN 60228 Cl. 2):
0.75 - 35 mm² = 7 stranded conductors, 50 - 95 mm² = 19 stranded conductors,
120 - 240 mm² = 37 stranded conductors, 300 - 500 mm² = 61 stranded conductors
- storage spaces for individual settings 8 storage spaces for individual settings
- Automatic shut-off
- Resistance measurements from 0.10 mΩ – 1,999.999 Ω

Suitable for

- Copper and aluminium
- Metric as well as UK and US units

Item	Part No.
CLM-1000E cable length measuring device	52067352
Scope of supply	Part No.
Calibration rod	52067353
KELVIN Klemmen / Messleitungen	52067354
Plastic case	



Classic Tone and Probe Kit 801K/50



Characteristics

- Tone generator with crocodile terminals with pincushion and RJ-11 plug
- 3-colour LED display (identifies WS call voltages)
- Weather-resistant design
- Selectable wobble tone
- Continuity test
- Polarity test
- 50 Hz filter function

Item	Part No.
Classic Tone and Probe Kit 801K/50	50604660
Scope of supply	Part No.
77HP-G/6A Tone generator	52047489
200FP filter sensor	50604678
Bag	50086839
Battery 9 V	

CONTINUOUSLY CONNECTED TO ONE ANOTHER - MEASURING GAUGES AND TESTERS FOR NETWORKS

Correct connections help to achieve non-interrupted communication. Greenlee measuring gauges and testers for networks test screened and non-screened conductors and immediately identify fault sources such as split pair faults, incorrect wiring, broken cables and short circuits. Even in poor light conditions, the measurements are clearly legible on the illuminated display. You rectify faults straight away.

In brief

- ▶ Measurements on screened and non-screened conductors possible
- ▶ Displays the fault position
- ▶ With NVP calibration
- ▶ Easy to operate





► NETcat Pro NC-500

The NC-500 tests not only for faults, it can also determine lengths of up to 600 m with the integrated TRD technology. For more accurate assignment, network devices can also be displayed in the environment and NVP calibrations can be performed. The NC-500 is therefore the optimal technical aid for correctly wiring and testing data cables.

- For screened and non-screened cables and conductors
- For split pair faults, incorrect wiring, short circuits and broken cables
- Length measurement up to 600 m with integrated TDR technology
- Easy to operate via touch screen
- Illuminated display for optimum legibility
- Displays active network devices (PC and hub)

- NVP calibration for optimum transmission speed
- Robust design suitable for industrial environment
- Selectable sound signals for cable identification



► For correct network connections: NETcat Pro NC-100

Check networks for correct cable connections in a few steps. Simply insert the cable into the device and the test receiver and select the cable type. The test result is displayed immediately and you can see at a glance which point has to be corrected.

- For screened and non-screened cables and conductors
- For split pair faults, incorrect wiring, short circuits and broken cables

- For twisted pair conductors with RJ-45 and RJ-11 plugs or coaxial cable with type F connection
- Easy to operate
- Readily legible thanks to illuminated display
- In conjunction with the 200 E-P inductive amplifier, cables can also be located and identified





NETcat® Micro NC-100 is a wiring tester for testing data, voice and video cables



Characteristics

- Built-in tone generator
- Testing of twisted pair (UTP, STP) and coaxial cables
- Locating short-circuits, breaks, incorrect wiring and split pair errors
- Surge warning feature
- Digital, backlit display
- Telephone (RJ-12), LAN (RJ-45) and coaxial connector (F type) ports
- Integrated remote unit
- Three selectable sound signals for cable identification

Item	Part No.	
NETcat® Micro NC-100	52024541	
Scope of supply	Part No.	Page
Twisted pair, coax and crocodile clips/connecting cable		
Battery		

NETcat® Micro NC-100 in combination with inductive receiver 200EP for cable identification



Characteristics

- Telephone (RJ-12), LAN (RJ-45) and coaxial connector (F type) ports
- Integrated remote unit
- Three selectable sound signals for cable identification
- Testing of twisted pair (UTP, STP) and coaxial cables
- Locating short-circuits, breaks, incorrect wiring and split pair errors

Item	Part No.	
NETcat® Micro NC-100 + 200EP	NC100EP	
Scope of supply	Part No.	Page
NETcat® Micro NC-100	52024541	612
Inductive amplifier 200 EP	52055782	
Test leads		
Battery		

NETcat® Pro NC-500, wiring and network service tester with TDR function



Characteristics

- Length measurement using TDR function up to 600 m
- Four selectable tone signals for cable identification
- Displays active network devices (PC or hub) in 10/100 Base-T networks
- NVP calibration
- ID detection of up to eight remote units with optional NC-510 accessory kit
- Testing of twisted pair (UTP, STP) and coaxial cables
- Locating short-circuits, breaks, incorrect wiring and split pair errors

Item	Part No.	
NETcat® Pro NC-500	52024556	
Scope of supply	Part No.	Page
Twisted pair, coax and crocodile clips/connecting cable		
Battery		