

VALTEST



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Automotive Battery Testers

AB70A, AB70B

VALTEST



AB70A / AB70B

- User can get the battery parameters, such as voltage, internal resistance, cold cranking amp and AH capacity, battery health and charge status, by using ONE Equipment;
- Allow users to test batteries in-vehicle and out-of-vehicle, and even dead cells;
- Can test alternator's charging and starter's cranking conditions;
- Able to check 12V and 24V batteries.



Specifications

		AB70A	AB70B
Battery Type	12V / 24V	✓	✓
Battery Standard	STD / AGM / GEL / EFB / SAE	✓	✓
CCA Range	50 ~ 1999	✓	✓
EN Range	50 ~ 1999	✓	✓
IEC Range	50 ~ 1200	✓	✓
DIN Range	50 ~ 1200	✓	✓
Capacity Range	3AH ~ 250AH	±5%	±(5%)
Internal Resistance	2 ~ 200mΩ	±(5%+5)	±(5%+5)
Discharge Current	50 ~ 1999A	±(5%+5)	±(5%+5)
Battery Life	0 ~ 100%	✓	✓
Battery Level Detection	0 ~ 100%	✓	✓
Start Capability		✓	✓
Battery Quality		✓	✓
Lighting / Flashlight		✓	✓
Temperature Measurement	0 ~ 400°C '32 ~ 752°F		±(3%+3) ±(3%+3)
Car Starting Test		✓	✓
Car Charging Capability			✓
Car Load Measurement		✓	✓
Resistance measurement method	Four (4) terminal Kelvin connections	✓	✓
Display Mode		Color LCD	
Powered by	Type-C from the battery being tested	✓	✓

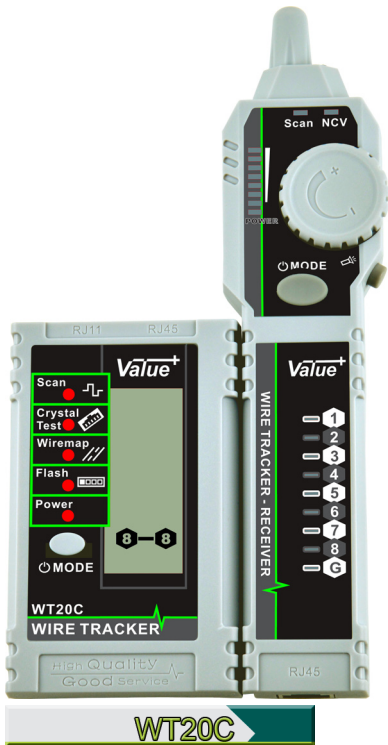


- Designed for test and measure a stationary battery system;
- Measure the battery internal resistance and voltages
- Can be used to determine the overall condition of battery system
- Measure electrical parameters for battery system maintenance
- Able to measure
 - Lead-acid batteries
 - Lithium batteries
 - Nickel-cadmium battery
 - Alkaline battery



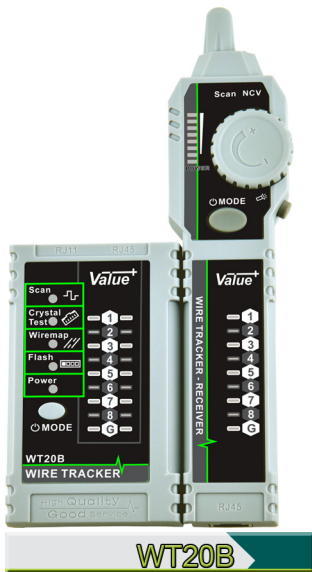
Specifications

		AB70C
Battery Internal Resistance	19.99mΩ/199.9mΩ/1.999Ω/19.99Ω/199.9Ω	±(0.8%+10)
Vdc	99.99V/109.9V	±(0.5%+5)
Vac Output	50mA/5mA/500mA/50mA	✓
Measuring Frequency	1kHz	✓
Auto / Manual Ranging		✓
Low Battery Indication		✓
Auto Power Off		✓
Display Backlight		✓
Flashlight		✓
Resistance measurement method	Four (4) terminal Kelvin connections	✓
Display Mode		Color LCD
Max Display		9999
Power By		3.7V Lithium Ion Battery



WT20C

- With Crimping Crystal Test;
- Cable Checking (WT20B and WT20C);
- PoE Voltage Test;
- Port Blink Test;
- Able to check network cable (4P4C and 8P8C), phone line and coaxial line;
- With low power consumption;
- Auto Power Off to save battery power.



WT20B



WT20A

Specifications

	WT20A	WT20B	WT20C
Digitalized Cable Tracing		✓	✓
Tracing cables connected to ethernet hub with POE support		✓	✓
Signal Level indication		✓	✓
Port Blink Test	100W	✓	✓
	1000W		✓
Display POE Power Pinouts	✓	✓	✓
60V POE Hipot Protection	✓	✓	✓
Crimping Crystal Test	✓	✓	✓
Cable Testing			
Shorts	✓	✓	✓
Open	✓	✓	✓
Split pair	✓	✓	✓
NCV		✓	✓
Tracing signal transmission distance		3km	
Output signal level		~15Vp-p	
Vibration induction			✓
Flashlight		✓	✓
Signal Level Indication		✓	✓
Tracing Sensitivity Adjustable		✓	✓
NCV Sensitivity Adjustable		✓	✓
Low Battery Indication	✓	✓	✓
Auto Power Off	✓	✓	✓
Input Jack Indicators		✓	
Power by Transmitter :	9V (6F22)	✓	
	3.7V, 800mAH Lithium Ion Battery		✓
Receiver :	3.7V, 800mAH Lithium Ion Battery	✓	✓
Working Current	30~40mA		



- With Intuitive Operation by displaying all results on one screen;
- Network (RJ45) / Phone (RJ11) Cable Connection Test;
- Able to measure PoE and battery Voltage;
- All test results are displayed on the screen for easy reading;
- Able to test UTP and STP cables;
- Suitable for CAT 3, 4, 5, 5e, 6, 6A, 7, 7A, 8/8.1 and 8.2 cable;
- Identify / Trace the target wire among plenty of wires (suitable for network cable, phone line and coaxial line);
- Short-circuit, breaking circuit, open circuit and crossing checking;
- Auto scan mode rapidly test corresponding LAN cable connectivity (1,2,3,4,5,6,7,8) to judge wrong connection or short/open circuit;
- Tracing cables connected to ethernet hub with POE support;
- Have Remote Identification Function;
- Intelligent wiremap (Shorts, Split Pairs, and Breakpoint Checking);
- Audio and visual indication;
- Vibrating indication (WT52B and WT52D);
- With digitalized signal to minimize the noise;
- Sound level adjustable to suit for working in different environments;
- With Non-contact Voltage Detection;
- Bright white LED flashlight for dark environments;
- Auto Power Off to save battery power;
- Trendy Look;
- Help to increase users efficiency.

WT52A / WT52C

Specifications

	WT52A	WT52B	WT52C	WT52D
Analogue Cable Tracing	✓	✓	✓	✓
Digitalized Cable Tracing	✓	✓	✓	✓
Tracing cables connected to ethernet hub with POE support	✓	✓	✓	✓
Port Blink Test	✓	✓	✓	✓
Identify wire pairs and quality of wire connections	✓	✓	✓	✓
Voltage Measurement (via network cable jack for reference)	✓	✓	✓	✓
POE (Standard) Voltage Polarity Checking	✓	✓		
POE (Non Standard) Voltage Polarity Checking	✓	✓	✓	✓
POE (Standard) Voltage measurement (for reference only)	✓	✓		
POE (Non-standard) Voltage measurement (for reference only)	✓	✓	✓	✓
Crimping Crystal Test	✓	✓	✓	✓
Continuity (via network cable jack)	✓	✓	✓	✓
Intelligent Wiremap	✓	✓	✓	✓
Shorts	✓	✓	✓	✓
Split pair	✓	✓	✓	✓
Continuity Test	✓	✓	✓	✓
NCV	✓	✓	✓	✓
Analogue Bargraph	✓	✓	✓	✓
Tracing signal transmission distance			3km	
Output signal level			~15Vp-p	
Vibration induction		✓		✓
Flashlight (both main body & transmitter)	✓	✓	✓	✓
Loudness Adjustable	✓	✓	✓	✓
Sensitivity Adjustable	✓	✓	✓	✓
White Display Backlight	✓	✓	✓	✓
Low Battery Indication	✓	✓	✓	✓
Auto Power Off	✓	✓	✓	✓
Working on	✓	✓	✓	✓
Network Cable (8P8C, 4P4C), Phone Line and Coaxial Cable				
Cable Length Measurement				
Length			2-120m	2-500m
Resolution			0.1m	0.1m
Best Accuracy			±(1%+2m)	±(1%+2m)
User Calibration			✓	✓
Multimeter				
DC Voltage	400mV~250V		±(0.8%+3)	±(0.8%+3)
AC Voltage	4V~250V		±(1.5%+5)	±(1.5%+5)
DC Current	1A~10A		±(1.2%+4)	±(1.2%+4)
AC Current	1A~10A		±(2%+5)	±(2%+5)
Resistance	200Ω~20MΩ		±(2%+6)	±(2%+6)
Diode		✓		✓
Temperature	-20~1000°C		±(2%+15)	±(2%+15)
Input Jack Indicators		✓		✓
Power by	Transmitter :	3.7V, 1250mAH Rechargeable Lithium Battery		
	Receiver :	9V (6F22)		



WT52B / WT52D



WT22A

- With Intuitive Operation by displaying all results on one screen;
- Network (RJ45) / Phone (RJ11) Cable Connection Test;
- Able to measure PoE and battery Voltage;
- All test results are displayed on the screen for easy reading;
- Able to test UTP and STP cables;
- Suitable for CAT 3, 4, 5, 5e, 6, 6A, 7, 7A, 8/8.1 and 8.2 cable;
- Identify / Trace the target wire among plenty of wires (suitable for network cable, phone line and coaxial line);
- Short-circuit, breaking circuit, open circuit and crossing checking;
- Auto scan mode rapidly test corresponding LAN cable connectivity (1,2,3,4,5,6,7,8) to judge wrong connection or short/open circuit;
- Tracing cables connected to ethernet hub with POE support;
- Have Remote Identification Function;
- Intelligent wiremap (Shorts, Split Pairs, and Breakpoint Checking);
- Audio and visual indication;
- Vibrating indication (WT22P);
- With digitalized signal to minimize the noise;
- Sound level adjustable to suit for working in different environments;
- With Non-contact Voltage Detection;
- Bright white LED flashlight for dark environments;
- Auto Power Off to save battery power;
- Trendy Look;
- Help to increase users efficiency.



WT22A



WT22C



WT22D



WT22E

Specifications

	WT22A	WT22B	WT22C	WT22D	WT22E	WT22F
Analogue Cable Tracing	✓	✓	✓	✓	✓	✓
Digitalized Cable Tracing				✓	✓	✓
Tracing cables connected to ethernet hub with POE support				✓	✓	✓
Identify wire pairs and quality of wire connections	✓	✓	✓	✓	✓	✓
Voltage Polarity Checking		✓	✓	✓	✓	
Continuity Test		✓		✓	✓	
Tracing signal transmission distance		1km			3km	
Output signal level		~15Vp-p			~23Vp-p	
Vibration induction					✓	
Flashlight	✓	✓	✓	✓	✓	✓
Loudness Adjustable	✓	✓	✓	✓	✓	✓
Headset available (for working in noisy area)	✓	✓	✓	✓	✓	✓
Change of buzzer tone for identification of buzzer sound	✓	✓	✓	✓	✓	✓
Low Battery Indication (Transmitter)	✓	✓	✓	✓	✓	✓
Laser Beam (for visual identifying the optical fibre continuity)			~1km			
Auto Power Off (Transmitter)	✓	✓	✓	✓	✓	✓
Power by Transmitter :				1.5V (AA) x 3		
Receiver :				9V (6F22)		



WT22F



WT22N / WT22P

- With Intuitive Operation by displaying all results on one screen;
- Network (RJ45) / Phone (RJ11) Cable Connection Test;
- Able to measure PoE and battery Voltage;
- All test results are displayed on the screen for easy reading;
- Able to test UTP and STP cables;
- Suitable for CAT 3, 4, 5, 5e, 6, 6A, 7, 7A, 8/8.1 and 8.2 cable;
- Identify / Trace the target wire among plenty of wires (suitable for network cable, phone line and coaxial line);
- Short-circuit, breaking circuit, open circuit and crossing checking;
- Auto scan mode rapidly test corresponding LAN cable connectivity (1,2,3,4,5,6,7,8) to judge wrong connection or short/open circuit;
- Tracing cables connected to ethernet hub with PoE support;
- Have Remote Identification Function (WT22P);
- Intelligent wiremap (Shorts, Split Pairs, and Breakpoint Checking);
- Audio and visual indication;
- Vibrating indication (WT22P);
- With digitalized signal to minimize the noise;
- Sound level adjustable to suit for working in different environments;
- Bright white LED flashlight for dark environments;
- Auto Power Off to save battery power;
- Trendy Look;
- Help to increase users efficiency.

Specifications

	WT22N	WT22P
Analogue Cable Tracing	✓	✓
Digitalized Cable Tracing	✓	✓
Tracing cables connected to ethernet hub with POE support	✓	✓
Identify wire pairs and quality of wire connections	✓	✓
POE Voltage Polarity Checking	✓	✓
POE Voltage measurement (for reference only)	✓	✓
Battery Voltage Polarity Checking	✓	✓
Battery Voltage measurement (for reference only)	✓	✓
Intelligent Wiremap		
Shorts	✓	✓
Split pair	✓	✓
Breakpoint checking	✓	✓
Continuity Test	✓	✓
Tracing signal transmission distance	3km	
Output signal level	~15Vp-p	
Vibration induction		✓
Flashlight	✓	✓
Loudness Adjustable	✓	✓
Low Battery Indication (Transmitter)	✓	✓
Auto Power Off (Transmitter)	✓	✓
Working on Network Cable (8P8C, 4P4C), Phone Line and Coaxial Cable	✓	✓
Power by Transmitter :	1.5V (AA) x 3	
Receiver :	9V (6F22)	



WT25D / WT25E

- Design to check Lan Cables, Phone Lines and Coaxial Cables;
- Easy to use;
- Help to increase users efficiency;
- Help to determine where a cable is and whether the cable is broken or not;
- Identify a cable from a bundle of cables;
- By using digitalized signal to increase the accuracy;
- Tracing cables connected to ethernet hub with PoE support;
- Suitable for CAT 3, 4, 5, 5e, 6, 6A, 7, 7A, 8/8.1 and 8.2 cable;
- Trendy look;
- Buzzer tone is changeable;
- Buzzer loudness adjustable;
- Flashlight for working in dark environments;
- Receiver can be stored in the transmitter for tidy up the tools and for easy carrying.



Receiver stored in the transmitter



WT25C

Specifications

	WT25C	WT25D	WT25E
Analogue Cable Tracing	✓	✓	✓
Digitalized Cable Tracing	✓	✓	✓
Tracing cables connected to ethernet hub with POE support	✓	✓	✓
Checking the correctness and quality of wire connections		✓	✓
Voltage Polarity Checking	✓	✓	✓
Continuity Test	✓	✓	✓
Tracing signal transmission distance		3Km	3Km
Output signal level		~23Vp-p	~23Vp-p
Vibration indication			✓
Flashlight	✓	✓	✓
Adjustable loudness of buzzer	✓	✓	✓
Change of buzzer tone for identification of buzzer sound	✓	✓	✓
Low battery indication	✓	✓	✓
Auto power off	✓	✓	✓
Powered by Transmitter:		1.5V (AA) x3	
Receiver:		9V (6F22) x1	

Cable Length Meters

WT26 series

VALTEST



WT26E / WT26G

- No Calibration is needed for general measurement;
- Allow User Calibration for precise measurement;
- Able to measure cable made of different material;
- Only need to connect the cable at one side;
- Measure up to 400 meters;
- Able to measure LAN cable (both 4P4C & 8P8C), Phone wire and BNC cable;
- Intelligent wiremap Shorts, Split Pairs, and Breakpoint Checking);
- Tracing cables connected to ethernet hub with PoE support;
- Have Remote Identification Function (Optional);
- Auto power off;
- With display backlight and flashlight;
- Sensitivity adjustable;
- With Red Visible Laser (WT26F).



Specifications

		WT26E	WT26F	WT26G
Cable Length Measurement	2-100m	Resolution Best Accuracy	0.1m ±(1%+5m)	
	2-400m	Resolution Best Accuracy		0.1m ±(1%+5m)
Intelligent Wiremap	Shorts		✓	✓
	Split pair		✓	✓
	Breakpoint checking		✓	✓
	Length of Network Cable (8P8C)		✓	✓
	Length of Network Cable (4P4C)		✓	✓
	Length of Phone Cable		✓	✓
	Length of BNC Cable		✓	✓
Analogue Cable Tracing		✓	✓	✓
Digitalized Cable Tracing		✓	✓	✓
Port Blink Test		✓	✓	✓
Voltage Measurement (via network cable jack for reference)		✓	✓	✓
POE (Standard) Voltage Polarity Checking			✓	✓
POE (Non Standard) Voltage Polarity Checking		✓	✓	✓
POE (Standard) Voltage measurement (for reference only)			✓	✓
POE (Non-standard) Voltage measurement (for reference only)		✓	✓	✓
Continuity (via network cable jack)		✓	✓	✓
Vibration induction				✓
PoE Voltage Protection		✓	✓	✓
Remote Identification (Optional)		7	7	7
User Calibratable		✓	✓	✓
User Calibration Result Storage		✓	✓	✓
Red Visible Laser			✓	
Max Display		9999	9999	9999
User Calibratable		✓	✓	✓
User Calibration Result Storage		✓	✓	✓
Display Backlight		✓	✓	✓
Flashlight		✓	✓	✓
Sensitivity adjustable		✓	✓	✓
Low power indication		✓	✓	✓
Auto power off		✓	✓	✓
Power By : Transmitter		3.7V 1360mAH Li-ion Battery x1		
Receiver		9V 6F22 Battery x1		



WT26F

Cable Length Meters w/ DMM

WT36 series

VALTEST



WT36D / WT36E

- No Calibration is needed for general measurement;
- Allow User Calibration for precise measurement;
- Able to measure cable made of different material;
- Only need to connect the cable at one side;
- Measure up to 600 meters;
- Able to measure LAN cable (both 4P4C & 8P8C), Phone wire and BNC cable;
- Intelligent wiremap Shorts, Split Pairs, and Breakpoint Checking);
- Tracing cables connected to ethernet hub with PoE support;
- Have Remote Identification Function (Optional);
- Auto power off;
- With display backlight and flashlight;
- Sensitivity adjustable;
- With Built-in Multimeter Functions.



Specifications

		WT36D	WT36E
Cable Length Measurement			
2-400m	Resolution	0.1m	
	Best Accuracy	±(1%+5)	
2-600m	Resolution		0.1m
	Best Accuracy		±(1%+5)
Intelligent Wiremap			
Shorts		✓	✓
Split pair		✓	✓
Breakpoint checking		✓	✓
Length of Network Cable	(8P8C)	✓	✓
Length of Network Cable	(4P4C)	✓	✓
Length of Phone Cable		✓	✓
Length of BNC Cable		✓	✓
Analogue Cable Tracing		✓	✓
Digitalized Cable Tracing			✓
Port Blink Test		✓	✓
Voltage Measurement (via network cable jack for reference)		✓	✓
PoE Voltage Polarity Checking		✓	✓
POE Voltage measurement (for reference only)		✓	✓
Continuity (via network cable jack)		✓	✓
PoE Voltage Protection		✓	✓
Vibration induction			✓
Remote Identification (Optional)		7	7
User Calibratable		✓	✓
User Calibration Result Storage		✓	✓
Multimeter			
DC Voltage	400mV-600V	±(0.8%+3)	±(0.8%+3)
AC Voltage	4V-400V	±(1.5%+5)	±(1.5%+5)
DC Current	1A-10A	±(1.2%+4)	±(1.2%+4)
AC Current	1A-10A	±(2%+5)	±(2%+5)
Resistance	200Ω-20MΩ	±(2%+6)	±(2%+6)
Diode		✓	✓
Continuity		✓	✓
Temperature		±(2%+15)	±(2%+15)
Max Display		9999	9999
Display Backlight		✓	✓
Flashlight		✓	✓
Sensitivity adjustable		✓	✓
Low power indication		✓	✓
Auto power off		✓	✓
Power By	Main Body: Receiver:	3.7V, 1250mAH Lithium Ion Battery 9V (6F22)	

Optical Power Meters

VT22D, VT22E, VT22F, VT23D, VT23E, VT23F



VT22D / VT23D

- Inspect optical fibre capabilities;
- Able to calculate relative power loss;
- Locate the fault and trouble shooting;
- Linear indicators (mW) and non-linear indicators (dBm) display in one screen;
- Large display for easy reading;
- Able to connect to SC, FC and ST type plug (with optional adaptors);
- High Performance Meter for precise measurement;
- With Visible Laser Beam, to have visual fault checking of optical fibre (VT22E, VT22F, VT23E and VT23F);
- Compact and Trendy Look;
- Easy to Use and Carry;
- Auto Power Off to save battery power;
- Eco Friendly by using Rechargeable Batteries (VT23D, VT23E and VT23F)



VT22E / VT22F

VT23E / VT23F



Specifications

	VT22D	VT22E	VT22F	VT23D	VT23E	VT23F
Wavelength (nm)	850, 980, 1300, 1310, 1490, 1550, 1620					
Detector type	InGaAs					
Power measurement range	-70 ~ 6 dBm					
Power measurement accuracy	±0.3 (5%)					
Resolution	0.01					
Optical output connector	2.5mm ST, SC, FC					
Red visible laser		✓	✓		✓	✓
Laser output		>10mW	>1mW		>10mW	>1mW
Low battery display	✓	✓	✓	✓	✓	✓
Auto power off	✓	✓	✓	✓	✓	✓
Powered by	1.5V (AA) x3			3.7V Rechargeable Battery (14500) x3		



VT24D

VT24E / VT24F

- Inspect optical fibre capabilities;
- Able to calculate relative power loss;
- Linear indicators (mW) and non-linear indicators (dBm) display in one screen;
- Large display for easy reading;
- Able to connect to SC, FC and ST type plug (with optional adaptors);
- With Visible Laser Beam, to have visual fault checking of optical fibre (VT24E and VT24F);
- Network (RJ45) / Phone (RJ11) Cable Connection Test.;
- Identify / Trace the target wire among plenty of wires;
- Trace wire in unpowered electrical system;
- Auto scan mode rapidly test corresponding LAN cable connectivity (1,2,3,4,5,6,7,8) to judge wrong connection or short/open circuit;
- Tracing cables connected to ethernet hub with POE support;
- Sound level adjustable to suit for working in different environments;
- Bright white LED flashlight for dark environments;
- Auto Power Off to save battery power;
- Eco Friendly by using Rechargeable Batteries;
- Easy to use;
- Help to increase users efficiency.

Specifications

	VT24D	VT24E	VT24F
Wavelength (nm)	850, 980, 1300, 1310, 1490, 1550, 1620		
Detector type	InGaAs		
Power measurement range	-70 ~ 6 dBm		
Power measurement accuracy	±0.3 (5%)		
Resolution	0.01		
Optical output connector	2.5mm ST, SC, FC		
Red visible laser		✓	✓
Laser output		>10mW	>1mW
Tracing network or phone cable in bundle of wires	✓	✓	✓
Checking the correctness and quantity of wire connections	✓	✓	✓
Low battery display	✓	✓	✓
Auto power off	✓	✓	✓
Powered by	3.7V Rechargeable Battery (14500) x3		
Transmitter:	9V (6F22) x1		
Receiver:			



MM62A / MM62B

- Input Jack indicators;
- Display Backlight;
- Auto power off;
- Low battery indication;
- Auto range;
- k-type temperature measurement (MM62B);
- Non-contact Voltage Detection;
- Live wire checking;
- Installed with anti-burn fuse.



Specifications

		MM62A	MM62B
DC Voltage	600mV/6V/60V/250V	±(0.8%+5)	±(0.8%+5)
AC Voltage	600mV/6V/60V/250V	±(1.5%+5)	±(1.5%+5)
DC Current	600μA/60mA/600mA/10A	±(1%+5)	±(1%+5)
AC Current	60mA/600mA/10A	±(1.5%+5)	±(1.5%+5)
Resistance	600Ω/6kΩ/60kΩ/600kΩ/6MΩ/60MΩ	±(0.8%+3)	±(0.8%+3)
Temperature	-20~400°C		±(3%+15)
Frequency	10Hz/100Hz/1kHz/10kHz/100kHz/1MHz/10MHz	±(1.5%+5)	±(1.5%+5)
Capacitance	6nF/60nF/600nF/6mF/60mF/600mF/6mF/60mF	±(4%+5)	±(4%+5)
Live		✓	✓
NCV		✓	✓
Auto Ranging		✓	✓
Diode		✓	✓
Continuity Buzzer		✓	✓
Data Hold		✓	✓
Low Battery Indication		✓	✓
Auto Power Off		✓	✓
Display Mode		Twisted Nematic	
Display Backlight		✓	✓
Flashlight		✓	✓
Max Display		5999	5999
Power By		1.5V AA x2	14500 Lithium Ion Rechargeable Battery
USB Charging			✓



MM65E

- True RMS;
- REL mode;
- Input Jack indicators;
- Display Backlight;
- Auto power off;
- Low battery indication;
- Auto range (MM65E);
- Auto and manual ranges selectable (MM65E);
- k-type temperature measurement (MM65C and MM65E);
- Non-contact Voltage Detection;
- Live wire checking;
- Battery test (MM65B and MM65C);
- CAT III 1000V / CAT IV 600V.



MM65B



MM65C

Specifications

		MM65B	MM65C	MM65E
DC Voltage	200mV/2V/20V/200V/1000V 600mV/6V/60V/600V/1000V	±(0.5%+3)	±(0.5%+3)	±(0.5%+5)
AC Voltage	2V/20V/200V/750V 600mV/6V/60V/600V/1000V	±(0.8%+5)	±(0.8%+5)	±(1.2%+5)
DC Current	200µA/20mA/200mA/10A 600µA/6000µA/60mA/600mA/10A	±(0.8%+3)	±(0.8%+3)	±(1.2%+5)
AC Current	20mA/200mA/10A 600µA/6000µA/60mA/600mA/10A	±(2%+5)	±(2%+5)	±(1.5%+5)
Resistance	200Ω/2kΩ/20kΩ/200kΩ/2MΩ/20MΩ 600Ω/6kΩ/60kΩ/600kΩ/6MΩ/60MΩ	±(0.8%+3)	±(0.8%+3)	±(0.8%+5)
Temperature	-20~1000°C 0~1832°F		±(1%+4) ±(1%+5)	±(1%+3) ±(1%+5)
Frequency	10Hz/100Hz/1kHz/10kHz/100kHz/1MHz/10MHz			±(1.5%+5)
Capacitance	20nF/200nF/2mF/20mF/200mF/2mF/20mF 6nF/60nF/ 600nF/6mF/60mF/600mF/6mF/60mF	±(5%+5)	±(5%+5)	±(4%+5)
Live		✓	✓	✓
NCV		✓	✓	✓
Auto Ranging				✓
Battery Test	1.5V/9V	✓	✓	
Diode			✓	✓
Continuity Buzzer		✓	✓	✓
True RMS		✓	✓	✓
Data Hold		✓	✓	✓
Auto Power Off		✓	✓	✓
Display Mode		Twisted Nematic		
Display Backlight		✓	✓	✓
Max Display		1999	1999	5999
Power By		1.5V (R6) x 2		



MM66E

- True RMS;
- REL mode;
- Input Jack indicators;
- Display Backlight;
- Auto power off;
- Low battery indication;
- Auto range (MM66E);
- Auto and manual ranges selectable (MM66E);
- k-type temperature measurement (MM66C and MM66E);
- Non-contact Voltage Detection;
- Live wire checking;
- Battery test (MM66B and MM66C);
- CAT III 1000V / CAT IV 600V;
- Eco-friendly (no disposable batteries are needed);
- With inductive charging which is safe and convenience;
- Using Vertical Alignment Display allows:
 - larger viewing angles;
 - faster response;
 - sharper contrast;
 - easier read under strong light.

With inductive (without any metallic contact) charger for **safe and easy charging**



MM66B



MM66C

Specifications

		MM66B	MM66C	MM66E
DC Voltage	200mV/2V/20V/200V/1000V 600mV/6V/60V/600V/1000V	±(0.5%+3)	±(0.5%+3)	±(0.5%+5)
AC Voltage	2V/20V/200V/750V 600mV/6V/60V/600V/1000V	±(0.8%+5)	±(0.8%+5)	±(1.2%+5)
DC Current	200µA/20mA/200mA/10A 600µA/6000µA/60mA/600mA/10A	±(0.8%+3)	±(0.8%+3)	±(1.2%+5)
AC Current	20mA/200mA/10A 600µA/6000µA/60mA/600mA/10A	±(2%+5)	±(2%+5)	±(1.5%+5)
Resistance	200Ω/2kΩ/20kΩ/200kΩ/2MΩ/20MΩ 600Ω/6kΩ/60kΩ/600kΩ/6MΩ/60MΩ	±(0.8%+3)	±(0.8%+3)	±(0.8%+5)
Temperature	-20~1000°C 0~1832°F		±(1%+4) ±(1%+5)	±(1%+3) ±(1%+5)
Frequency	10Hz/100Hz/1kHz/10kHz/100kHz/1MHz/10MHz			±(1.5%+5)
Capacitance	20nF/200nF/2mF/20mF/200mF/2mF/20mF 6nF/60nF/ 600nF/6mF/60mF/600mF/6mF/60mF	±(5%+5)	±(5%+5)	±(4%+5)
Live		✓	✓	✓
NCV		✓	✓	✓
Auto Ranging				✓
Battery Test	1.5V/9V	✓	✓	
Diode			✓	✓
Continuity Buzzer		✓	✓	✓
True RMS		✓	✓	✓
Data Hold		✓	✓	✓
Auto Power Off		✓	✓	✓
Display Mode		Vertical Alignment		
Display Backlight		✓	✓	✓
Max Display		1999	1999	5999
Power By		3.7V (14500) x 1		
Inductive Charging		✓	✓	✓



NF11A / NF11B

NF11C

- Safe (Detects voltage without contact);
- Easy to use;
- Available with different indicating methods (flashing, sound and vibration);
- Measuring from 90V to 1000V (CAT IV), suitable for a wide range of residential, commercial and industrial needs;
- Built-in white torch at the front end for helping to search the testing point in dark (some models);
- Integrated clip design, optimized for pocket storage;
- Nice sharp;
- Auto Power off to enhance the battery life.



NF11F

Specifications

	NF11A	NF11B	NF11C	NF11F
AC Voltage	90-1000V	90-1000V	90-1000V	90-1000V
Frequency	40-400Hz	40-400Hz	40-400Hz	40-400Hz
Indicated by				
LED Flashing	✓	✓	✓	✓
Beep Sound (Non-Switchable)		✓		
Beep Sound (Switchable)			✓	✓
Vibrating (Switchable)				✓
On / Off Button		✓	✓	✓
Switch on Indication		✓	✓	✓
Auto / Manual Detection Select		✓	✓	✓
Standby Indication	✓	✓	✓	✓
Flashlight		✓		✓
Low Battery Indicator	✓	✓	✓	✓
Auto Power Off	✓	✓	✓	✓
Overload Protection	CAT IV 1000V			
Power by	1.5V (AAA) x 2			

Non-contact Voltage Detectors

NF12, NF13 series



NF13B

- 5 segments bargraph indicators for easy interpretation;
- With audio indication; Measuring from 90V to 1000V (CAT IV);
- Suitable for a wide range of residential;
- Built-in white torch at front end for helping to search the testing point in dark;
- Integrated clip design;
- Optimized for pocket storage;
- Auto power off;
- Safe and easy to use.

Specifications

	NF13A	NF13B
AC Voltage	42-1000V	42-1000V
Frequency	50-400Hz	50-400Hz
Indicated by		
LED Flashing (5 Segments)	✓	
LCD Indicating (5 Segments)		✓
Beep Sound (Switchable)	✓	✓
On / Off Button	✓	✓
Switch on Indication	✓	✓
Standby Indication	✓	✓
Flashlight	✓	✓
Low Battery Indicator	✓	✓
Auto Power Off	✓	✓
Overload Protection	CAT IV 1000V	
Power by	1.5V (AAA) x 2	



NF13A

- Multi-propose detector for voltage detection and magnetic field detection;
- Detect the presence and polarity (North & South pole) of magnetic fields;
- Detect the presence of AC voltage from 90V to 1000V suitable for a wide range of residential, commercial and industrial needs;
- Non-contact voltage detection which is safe to user;
- Built-in white torch at the front end for helping to search the testing point in dark;
- With selectable sound / vibration for using in different environment (NF12D);
- Have auto power off to enhance the battery life
- CAT IV 1000V.

Specifications

	NF12A	NF12D
AC Voltage	90-1000V	90-1000V
Frequency	40-400Hz	40-400Hz
Sensitivity	20mm @ 240VAC	20mm @ 240VAC
Indicated by		
LED Flashing	✓	✓
Beep Sound (Switchable)		✓
Vibrating (Switchable)		✓
On / Off Button	✓	✓
Switch on Indication	✓	✓
Standby Indication	✓	✓
Flashlight		✓
Low Battery Indicator	✓	✓
Auto Power Off	✓	✓
Overload Protection	CAT IV 1000V	
Magnetic Field Detectors		
Sensitivity	±10mT	±10mT
Detection Area	10mm	10mm
Indicated by		
South / North Pole Indicator (by green / yellow LED)	✓	✓
Beep Sound (present of Magnetic Field)		✓
Power by	1.5V (AAA) x 2	



NF12A / NF12D



VM32T / VM32U

- Able to test Analogue, AHD, TVI, CVI and IP camera;
- PTZ Control and Scan available;
- Get IP Camera address and control;
- Monitoring RS-485 signals;
- Available with color bar output to check the monitors that the users can bring fewer instruments;
- Various power output selections help users to work in the environment which do not have power supply;
- Available with some additional functions;
- Builtin flashlight can help users to work in dark environments.



VM32Q

Specifications

	VM32Q	VM32T	VM32U
Display			
Type	TFT		
Size	3.5"		
Resolution	960(H) x 240(W)		
Power Output (DC12V 2A)	✓	✓	✓
Power Bank (DC5V 1A)	✓	✓	✓
Video Signal Input			
Type	NTSC / PAL		
Automatically identifying	✓	✓	✓
OSD Menu	✓	✓	✓
PTZ Control	✓	✓	
PTZ Address Scanning	✓	✓	
PTZ Address Preset	✓	✓	
RS-485 Signal Monitoring	✓	✓	✓
Color Bar Output	✓	✓	✓
UTP Cable Test	✓	✓	✓
IP Camera Address Scan	✓		✓
IP Camera Test	✓		✓
AHD	✓	✓	
Resolution Support (720p/1080p)	✓	✓	
Frame Rate Support (25/30/50/60 fps)	✓	✓	
TVI	✓	✓	
Resolution Support (720p/1080p)	✓	✓	
Frame Rate Support (25/30/50/60 fps)	✓	✓	
CVI	✓	✓	
Resolution Support (720p/1080p)	✓	✓	
Frame Rate Support (25/30/50/60 fps)	✓	✓	
Tracking network or TV cable in bundle of wires	✓		
Checking the correctness and quality of wire connections	✓		
Tracking signal transmission distance	1km		
Low Voltage Indicator	✓	✓	✓
Charging Indicator	✓	✓	✓
Charging Protection	✓	✓	✓
Sound on/off selectable (Volume adjustment)	✓	✓	✓
Phone cable tracing	✓		
Flashlight	✓	✓	✓
Auto Power Off	✓	✓	✓
Transmitter Powered By :			
3.7V 1800mA.h 18650 Li-ion Battery x3	✓	✓	✓
Receiver Powered By 9V (6F22) x1	✓		



Contact Type Thermometers

VT55 series



VT55A / VT55B

- Large Display shows :
 - T1, T2 together (VT55A); and
 - T1, T2, T3, T4 together (VT55B);
- Electronic offset function allows compensation of thermocouple errors to maximise overall accuracy;
- Measures J, K, T, E, R, S and N type thermocouples;
- Readout in °C, °F or Kelvin (K);
- Data logging up to 5000 records (VT55B) or 100 records (VT55A);
- With Hi / Lo Alarm to keep inform user when Hi or Low temperature is recorded;
- User friendly front panel is easy to set up and operate
- Auto Power Off to increase battery life.

Specifications

			VT55A	VT55B
No of Input			2	4
Temperature	Type K	-200°C ~ 1300°C -328°F ~ 2372°F	±(2%+2°C) ±(2%+4°F)	±(1%+1°C) ±(1%+2°F)
	Type J	-200°C ~ 1200°C -346°F ~ 2192°F	±(2%+2°C) ±(2%+4°F)	±(1%+1°C) ±(1%+2°F)
	Type T	-200°C ~ 400°C -346°F ~ 752°F	±(2%+2°C) ±(2%+4°F)	±(1%+1°C) ±(1%+2°F)
	Type E	-150°C ~ 1000°C -238°F ~ 1832°F	±(2%+2°C) ±(2%+4°F)	±(1%+1°C) ±(1%+2°F)
	Type R	0°C ~ 1760°C 32°F ~ 3200°F	±(2%+2°C) ±(2%+4°F)	±(1%+1°C) ±(1%+2°F)
	Type S	0°C ~ 1760°C 32°F ~ 3200°F	±(2%+2°C) ±(2%+4°F)	±(1%+1°C) ±(1%+2°F)
	Type N	-200°C ~ 1300°C -328°F ~ 2372°F	±(2%+2°C) ±(2%+4°F)	±(1%+1°C) ±(1%+2°F)
	Resolution	≤999.9 >999.9	0.1 1	0.1 1
°C/°F/K Selection			✓	✓
Max Mode			✓	✓
Min Mode			✓	✓
AVG Mode			✓	✓
T2-T1			✓	✓
T4-T3				✓
Hi/Low Alarm				✓
Data Hold			✓	✓
Data Lodding			100	5000
Probe Temp Compensation			✓	✓
Auto Calibration			✓	✓
Blue Tooth Interface				✓
Backlight Flashing Alarm			✓	✓
Auto Power Off			✓	✓
Display Backlight			✓	✓
Display Mode			Color LCD	
Max Display			9999	9999
Power By			1250mAH Lithium Battery	

Forehead IR Thermometers

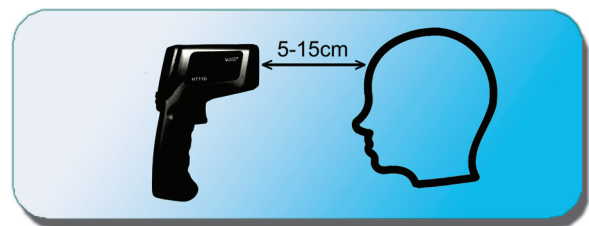
HT11 series



- Screen out the person who has a fever;
- Fast and easy measurement;
- Best Accuracy up to 0.2°C;
- Response time : 500ms;
- °C / °F selectable;
- Max / Min record;
- Fever alarm (HT11E only);
- With display backlight;
- Auto power off.

HT11A / HT11D

HT11E



Specifications

	HT11A	HT11D	HT11E
Body Temperature Range	32°C - 42.5°C 89.6°F - 108.5°F	32°C - 42.5°C 89.6°F - 108.5°F	32°C - 42.5°C 89.6°F - 108.5°F
Surface Temperature Range	0°C - 60°C -32°F - 140°F	0°C - 60°C -32°F - 140°F	0°C - 60°C -32°F - 140°F
Best Accuracy	±0.4°C or ±0.7°F	±0.2°C or ±0.4°F	±0.2°C or ±0.4°F
Display Resolution	0.1		
Distance	5 - 15cm		
Response Time (95% reading)	500ms		
Display Hold	7 seconds		
°C / °F Selection	✓	✓	✓
Temperature Data Hold	✓	✓	✓
Audible Indication			✓
Display Backlight		✓	✓
Sleep Mode		✓	✓
Power By	9V (6F22) x 1		



VT10C

- Adjustable emissivity (from 0.10 to 0.95);
- Wide Range (largest range from -50°C to 1350°C / -58°F to 2462°F);
- Min / Max / Alarm;
- Able to store 20 measured values (for VT10B and VT10C);
- Able to measure room temperature;
- With Circular Laser Pointer (for VT10B and VT10C);
- White Backlight With 5 buttons for easy and fast operate;
- With Sleep mode to enhance battery life.



VT10A



Circular Laser Sighting
(VT10B and VT10C)



VT10B

Specifications

	VT10A	VT10B	VT10C
Temperature Range	-50°C - 550°C -58°F - 1022°F	-50°C - 850°C -58°F - 1562°F	-50°C - 1350°C -58°F - 2462°F
Best Accuracy	±1.5%, ±1.5°C or ±1.5°F		
Repeatability	±0.5%, ±0.5°C or ±1°F		
Display Resolution	0.1		
Distance to Spot Size Ratio	12:1		30:1
Response Time (95% reading)	500ms		
Spectral Response	8mm - 14mm		
Laser Power	Class 2 (II) operation; Output < 1mW, wavelength 630-670nm		
Laser Switch	✓	✓	✓
Laser Sighting	Single Point	Circular	Circular
Display Hold	7 seconds		
Emissivity	0.10 to 0.95		
°C / °F Selection	✓	✓	✓
Temperature Data Hold	✓	✓	✓
Data Logging		20	20
Search	✓	✓	✓
MAX / MIN / Room Temperature	✓	✓	✓
Hi / Lo alarm		✓	✓
Display Backlight	✓	✓	✓
Sleep Mode	✓	✓	✓
Power By	9V (6F22) x 1		



Hygrothermometer

- Precise;
- Able to monitor indoor temperature and humidity;
- Suitable for Home and Industrial Users;
- Celsius and Fahrenheit Selectable;
- Build-in Clock and Calendar;
- Comfortability Display;
- With Min/Max Display;
- With Alarm;
- Easy to operate.

Specifications

	VT21A
Temperature Range	0°C ~ 60°C
Best Accuracy	±1.5°C
Display Resolution	0.1
Humidity Range	20% ~ 90% RH
Best Accuracy	±5% @ 23°C
Display Resolution	1%
°C / °F Selection	✓
Time	✓
Calendar	✓
Comfortability	✓
Min / Max	✓
Alarm	✓
Power By	1.5V (AAA) x1



PM_{2.5} Meter

- Precise;
- Able to monitor indoor temperature and humidity;
- Suitable for Home and Industrial Users;
- Celsius and Fahrenheit Selectable;
- Build-in Clock and Calendar;
- Comfortability Display;
- With Min/Max Display;
- With Alarm;
- Easy to operate.

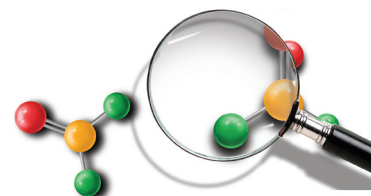
Specifications

		VT50A
PM _{2.5}	0-999µg/m	±10 digit or ±10%
Detection Technology		Dynamic Light Scattering
Response Time		3s
Auto Power Off		✓
Power by		3.7V Lithium Battery (450mAh)



VT22H / VT22J
VT22K

- Employ the latest technologies to ensure the accuracy;
- Easy to use;
- Nice shape;
- For continuous monitoring formaldehyde level, especially after redeclaration and / or installing new furniture;
- Suitable for household use;
- Large display for easy reading;
- With Display Backlight for working in dark environments;
- Available for hanging on wall;
- Available with Temperature and Humidity Measurement for fully monitoring the environment;
- Unit (mg / ppm) selectable.



Specifications

	VT22H	VT22J	VT22K
Formaldehyde Measurement			
Range	0-5mg/m3	0-5mg/m3	0-5mg/m3
Resolution	0.01mg/m3	0.01mg/m3	0.01mg/m3
Accuracy	±5%	±5%	±5%
Temperature Measurement			
Range	0°C-50°C	-10°C-99°C	-10°C-99°C
Accuracy	±1°C	±0.5°C	±0.5°C
Humidity Measurement			
Range		0%-100%RH	0%-100%RH
Accuracy		±4.5%	±3%
°C / °F Selection	✓	✓	✓
Measurement Unit (mg / ppm) Selectable	✓	✓	✓
Repeatability	1% of signal		
Display Backlight	✓	✓	✓
Low Battery Indicator	✓	✓	✓
Auto Power Off	✓	✓	✓
Power by	1.5V (AAA) x 2		



PL33C / PL33D

PL33E / PL33F

- Locating the pipe / drain blocking position;
- Tracing the hidden pipe / drain route;
- Able to identify the designated pipe / drain;
- Able to trace both PVC, metallic and concrete pipe / drain;
- Adjustable sensitive to fit for different environments;
- Compact size for easy carrying;
- Cost effective equipment for pipe / drain locating;
- Indicating by sound or vibration;
- Autopower off to enhance the batteries life.

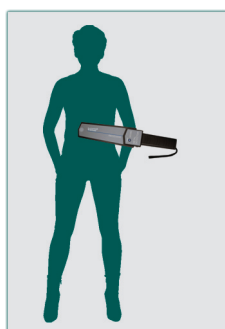
Specifications

	PL33C	PL33D	PL33E	PL33F
Scan PVC / concrete pipe	✓	✓	✓	✓
Scan metallic pipe	✓	✓	✓	✓
Transmission signal adjustable	✓	✓	✓	✓
Transmission cable length	20m			
Scanning indicator				
Sound	✓	✓	✓	✓
Vibration			✓	✓
Auto power off	✓	✓	✓	✓
Flashlight	✓	✓	✓	✓
Adjustable sensitivity	✓	✓	✓	✓
Low battery indicator (Transmitter)	✓	✓	✓	✓
Powered by (Transmitter)				
9V (6F22) x41	✓		✓	
3.7V 1800mAh Li-ion Rechargeable x1		✓		✓
Powered by (Receiver)		9V (6F22) x1		



MD28A / MD28B

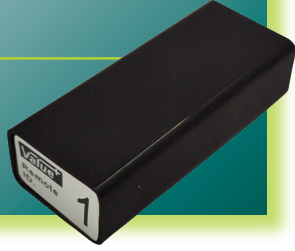
- To detect metals, weapons and metallic objects;
- For security screening;
- To search for discard or lost;
- Screening the metallic contaminant during production;
- For Beachcombing;
- High sensitivity
- Able to detect tiny metal pieces
- With sound, LED and vibrating indicator
- With low battery indicator.



Specifications

	MD28A	MD28B
Indicators		
Audio Alarm	✓	✓
LED	✓	✓
Vibrating		✓
Operating Frequency	22kHz	22kHz
Power Consumption	270mW	270mW
Low Battery Indicator	✓	✓
Power by	9V (6F22) x1	

Remote ID Unit
for Cable Length Meter



Inductive Charger



Carrying Bag VM



Testleads



Carrying Bag WT



k-type Temperature Probe



Carrying Bag VT



Alligator Clip for
wire tracing

