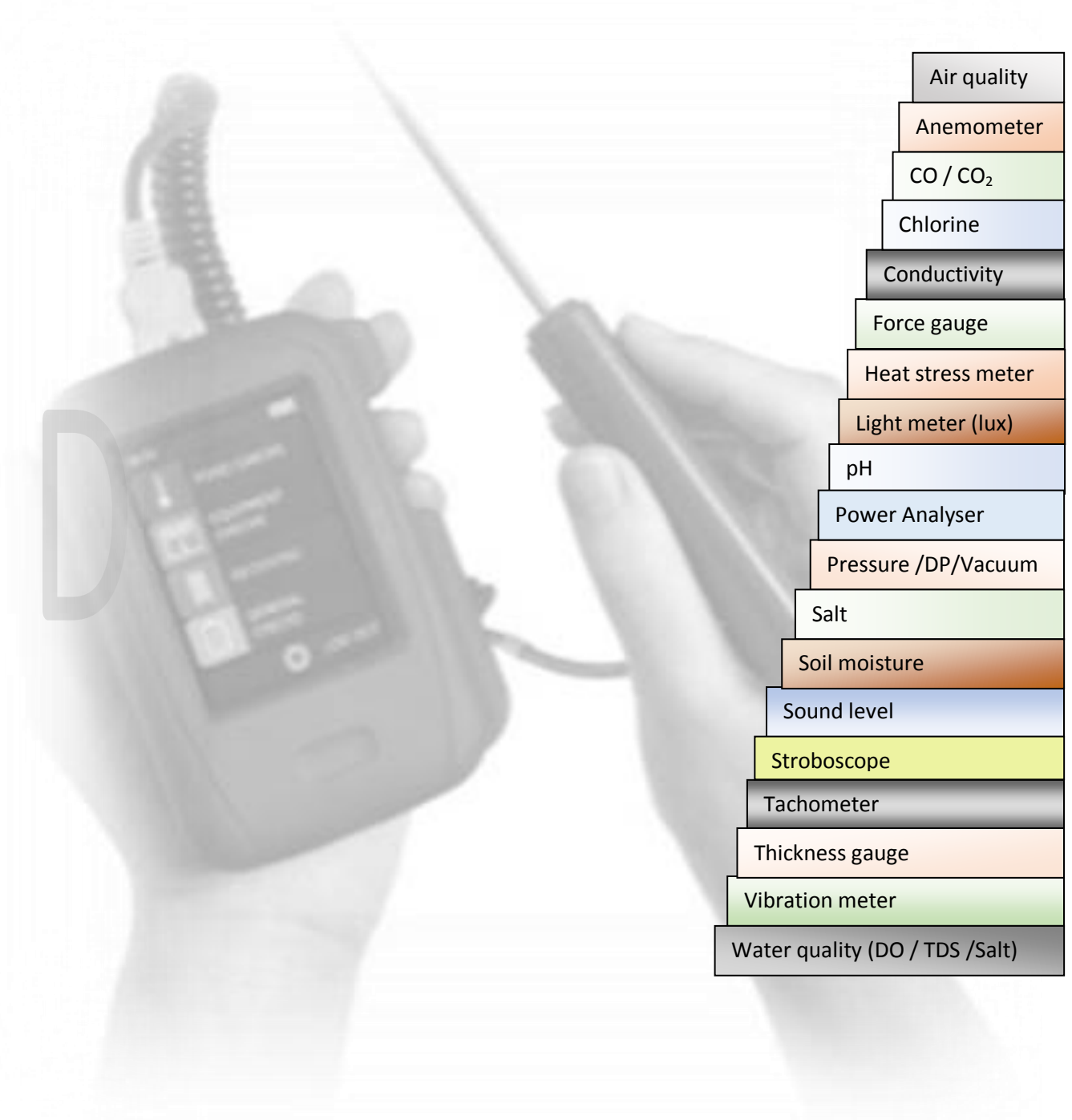


Hand held meters



- Air quality
- Anemometer
- CO / CO₂
- Chlorine
- Conductivity
- Force gauge
- Heat stress meter
- Light meter (lux)
- pH
- Power Analyser
- Pressure /DP/Vacuum
- Salt
- Soil moisture
- Sound level
- Stroboscope
- Tachometer
- Thickness gauge
- Vibration meter
- Water quality (DO / TDS /Salt)

*Prices mentioned in this hand book are in NZD and doesn't include GST.
Prices are subjected to change without notice*

Anemometer

Anemometer + thermometer + datalogging in SD card


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Model	LU-AM4214SD \$455.00	LU-AM4207SD \$355.00
Type	Hot wire - Telescope probe	Vane type
Probe structure	12mmx280mm min length; 12mmx940mm max length	Low friction ball vane 72mm dia
Velocity range	0.2 to 5.0 m/s (0.01 resolu) 5.0 to 25.0 m/s (0.1 resolu)	0.4 to 25.0 m/s (0.1 resolution)
Accuracy	±5% of reading or ±1% F.S	± (2%+0.2 m/s)
Air temp range	0 to 50°C	
Thermocouple input range	K type: -50°C to 1300°C; J type: -50°C to 1200°C Thermocouple probes are optional	
Datalogger	1 to 3600 seconds; 2 GB to 16GB SD card optional	
Power supply	Alkaline or heavy-duty DC 1.5 battery x 6 PCs; DC9V adapter input: AC/DC adapter optional	
Application	Grills, diffusers, flow hoods, clean rooms, air balancing	Air conditioning and heating system
Accessories	AC/DC power adapter LU-POWER-9V: \$25.00 (link) SD card 8GB: LU-SD-8GB: \$ 20.00 (link)	


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Multifunction mini anemometer


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Model	LU-SP9202 \$278.00	LU-SP8001 \$189.00
Functions	11 in 1 meter. Air velocity/Temp, UV Light, Humidity/Temp, Barometer , Air flow, Dew point, Wet bulb, Wind chill, Heat index, Altitude , PT1000 (optional)	9 in 1 meter. Air velocity/Temp, Light, Humidity/Temp, Air flow, Dew point, Wet bulb, Wind chill, Heat index, PT1000 (optional)
Air velocity	0.4 to 20.0 m/s	0.4 to 20.0 m/s
Airflow Humidity	0.024 to 36,000 CMM	0.024 to 36,000 CMM
Temperature	10 to 95%	10 to 95%
UV Light	0 to 50°C	0 to 50°C
Dew point	1uW/cm ² to 20 mW/cm ²	0 -20,000 Lux
Wet bulb Temp	Td: -25.3 to 49.0°C	Td: -25.3 to 49.0°C
Wind chill	-5.4 to 49.0°C	-5.4 to 49.0°C
Heat index	-9.4 to 44.2°C	-9.4 to 44.2°C
Barometer	0-100°C	0-100°C
Altitude	10.0 to 1100 hPa -2,000 to 9000m	
Power supply	CR 2032 DC 3V battery	
Accessories	PT1000 temperature probe	
New mini weather stations with pocket sized economical multi-function meters for environmental and weather measurements.		


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Heat stress meter

Model	LU-WBGT-2010SD \$439.00
Air temperature	0-50°C
Black globe temp	0-80°C
Humidity	5% to 95% RH
Dew point Temp	-25.3 to 48.9°C
Wet bulb Temp	-21.6 to 50°C
Wet bulb globe temp	Indoor: 0-59°C, Outdoor: 0-56°C
Power supply	1.5V battery x 6 pcs / DC9V adapter optional
Suggested for Occupational health and sports medicine Australia in establishing permissible heat exposure.	



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Lux meter

Model	LU-LX1128SD \$210.00
Separate light sensor for easy measurement. Lux and foot candle readings, three ranges, zero adjustment for light measurement, logging to SD card at 1 to 3600 sec intervals	
Ranges	2,000, 20,000, and 100,000 lux auto-ranging
Operating condition	Temp: 0 to 50°C Humidity: less than 85% RH
Temperature range	-50.0 to 1300.0°C (K type) probe optional
Power supply	1.5V battery x 6 pcs / DC9V adapter optional



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Carbon monoxide (CO)

Model	LU-GCO2008 \$275.00
Carbon monoxide	0-1000 PPM
Temperature	0 to 50°C
Accuracy (CO)	±5% + 2 PPM
Resolution	1 PPM (CO) / 0.1°C
Sensitivity drift	< 5% per year
Response time	< 30 seconds,
Repeatability	< 2%
Display size	52 x 38mm
Feature	Dual function
Sampling time	1 second
Advanced setting	CO alarm
Power supply	1.5V battery x 6 pcs / DC9V adapter optional



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Carbon dioxide (CO₂)

Model	LU-GCH2018 \$645.00
Carbon dioxide	0-4000 PPM
Temperature	0 to 50°C
Accuracy (CO)	±40PPM ≤1,000PPM
Resolution	1 PPM (CO ₂)
Altitude comp	0 to 9000m
Repeatability	±20 PPM
Power supply	1.5V battery x 6 pcs/ DC9V adapter optional
Accessories included	CO ₂ probe, humidity probe and carry case
NDIR sensor for long life and stability, alarm setting and warning, separate probe for confined spaces	



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Conductivity meter

Model	LU-PCD431 \$179.00
All-in-one tester for TDS and conductivity – pocket sized meter.	
Conductivity Range	2-2,000 µS/2-20.00mS Auto ranging
TDS range	132-1,320 ppm and 1,320-13,200 ppm
Resolution	1µS (2-2,000 µS) and 0.01mS (2-20.00 mS)
Accuracy	±3% F.S + 1 decimal
Dual display	Process value and temperature
Power supply	1.5V battery x 4 pcs



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Chlorine meter

Model	LU-CL2006 \$580.00
To measure Free chlorine, total Chlorine and record Max, Min. value and hold. Test swimming pool, municipal water, food and beverage water, or other aqueous solution where fluid clarity is important.	
Range	0 to 3.5 ppm (mg/L)
Resolution	0.01 ppm (mg/L)
Accuracy	±0.02 ppm @ 1.00 ppm
Response time	< 10 seconds
Light source	LED 525 nm
Power supply	1.5V battery x 6 pcs



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Sound level meter



Model	LU-SL4033SD \$ 460.00
Frequency weighting A/C comply with standards. Frequency and time weighting meet IEC 61672 class 1, Time weighting FAST (200 ms)/SLOW (500ms). Microphone: ½" standard electric condenser.	
Range	30-130 dB, Auto and manual range selector
Sampling rate	Approx. 1 second
Frequency	31.5Hz~16KHz
Accuracy	±2.0 dB to ±3.5 dB (between 31.5Hz to 16KHz) (Ref 94dB)
Power supply	1.5V battery x 6 pcs / DC9V adapter optional

Model	CE-32 (with logging) \$ 409 CE-323 (without logging) \$ 239
Max/Min function; Frequency weighting A/C, Time weighting FAST/SLOW; Complies with IEC 61672-1 Class 2 Standard	
Range	30-130 dB in 3 ranges 30-90dB /50-110dB/70-130dB
Dynamic range	60 dB
Accuracy	±1.4dB (Ref 94dB @ 1KHz)
Sampling	2 times / second
Frequency	20Hz~8KHz
Microphone	½" electret condenser microphone
Power supply	1.5V battery x 4 pcs (CE-323) 9V battery (CE-32)



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Vibration meter

Vibration + tachometer



Model	LU-VB8206SD \$ 865.00
Displacement	p-p 0.001 to 1.999mm
Acceleration	0.5 to 199.9m/sec ²
Velocity	0.5 to 199.9mm/sec
Accuracy	±5% + 2 digit-displacement optional
	SD memory card
Application: All industrial machinery vibration to balance, check misalignment, looseness in the machines. Vibration sensor comes with magnetic base. SD card records the measured values with time information. It can be downloaded to Excel spread sheet for further data or graphic analysis. No extra software required	

Model	LU-VT8204 \$896.00
Displacement	p-p 0.005 to 1.99mm
Acceleration	0.5 to 199.9m/sec ²
Velocity	0.5 to 199.9mm/sec
Optical Tacho	10- 99,999 RPM
Contact Tacho	0.5-19,999 RPM
Accuracy	±5% + 2 digit(vibration) ±0.05% + 1 digit (RPM)
Sampling time	Approx. 1 sec
Power supply	1.5 V battery x 4 PCs
Application: Useful guide to machine condition, poor balance, misalignment, looseness in structure. Optional software available to view real time data and historical trend.	



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Tachometer

Model	LU-DT1236L (laser photo) \$385.00	LU-DT2236 (photo) \$360.00
Measuring Range	10 to 99,999 RPM	5 to 99,999 RPM
	Contact Tachometer: 0.5 to 19,999 RPM	
	Surface speed: 0.05 to 1,999.9 m/min; 0.2 to 6,560 ft/min	
Detecting distance	4cm to 200cm typical. (Max 200cm at 1800 RPM & reflecting tape 1cm x 1cm)	< 600mm from target
Light source	1 mW class 2 laser diode	IR LED
Power consumption	Laser type: Approx DC 22 mA Contact type: Approx. DC 7 mA	Photo type: Approx DC 153 mA; Contact type: Approx DC 10 mA
Other common features	Display: 5 digits, 10mm (0.4") LCD; Accuracy: ± (0.05% + 1 digit), Memory: Last/Max/Min value, Power: 4 x 1.5 VDC AA (UM-3) batteries	
Accessories included	Carrying case, Reflecting tape marks -600mm, RPM Adapter-Cone, RPM Adapter-Funnel, Surface speed test wheel, Operation Manual	



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Stroboscope

A stroboscope is an instrument used to make a cyclically moving object appear to be slow-moving or stationary so that the objects can be visible, otherwise, it cannot be observed by naked eyes



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Model	LU-DT2349	\$540.00
Flash tube	Xenon lamp	
Flash duration	Approx. 60 to 1000 micro sec	
Flash adj. Range	60 to 32,000 RPM/FPM	
Resolution	0.1 RPM for < 1,000 RPM / 1 RPM for > 1,000 RPM	
Accuracy	± (0.05 % + 1d)	
Power supply	Either rechargeable batteries (4 x 1.2V Ni-MH) or through DC9V adapter- NOT BOTH	
* RPM: round per minute; FPM: flash per minute		
Ideal for inspecting and measuring the speed of moving gears, fans, centrifuges, pumps, motors and other equipment for maintenance		

Force gauge



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Model	LU-FG6005SD	\$ 539.00
Functions:	Tension & Compression (Push & Pull) Normal force, Peak hold (Max. load)	
Data logging	from 1 sec to 8Hr:59min:59 sec	
Range	5,000 g /176.40 oz/49.03 Newton	
Resolution	1 g/0.02 oz/0.01 Newton	
Min display	3 g/0.10 oz/0.03 Newton	
Accuracy	± (0.4% + 1 digit)	
Update time	Fast :0.2 sec; Slow 0.6 sec	
Power supply	1.5V battery x 6 pcs / DC9V adapter optional	
Other models: LU-FG6020SD (20Kg) \$ 569; LU-FG6100SD (100Kg) \$ 698		

Thickness gauge

Widely used in finding the corrosion of pressure vessels, chemical equipment, boilers, oil storage tanks, etc. Materials suited to measure includes steel, cast iron, aluminium, red copper, brass, zinc, quartz glass, polyethylene, PVC, cast iron and other material. Couplant are used to help the ultrasonic wave to have better transmission coefficient and give better dB. Zero-point calibration is available in the meter



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Model	DH- TM210PLUS \$ 496.00	DH-TM8812C \$ 589.00
Range	0.75-225.0mm (in steel)	1.0-200mm
Sound velocity range	1000 ~ 9999m/s	1000 ~ 9000m/s
Display resolution	0.01mm (< 100.0mm) 0.1mm (> 99.99mm)	
Accuracy	± (0.5% + 0.02 mm) depends on materials and conditions	
Interface	USB serial port with Protective Membrane and software to process the memory data on the PC	RS232
Power supply	2 x 1.5V AA size battery	4 x 1.5V AAA battery
Dimension, weight	150 x 74 x 32mm, 238 g	120 x 62 x 30mm, 164g
Probe	Right-angled probe, 5MHz model, Ø20mm x Ø 3.0mm	



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Differential pressure meter /Pressure meter



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Model	KM-C9551, KM-9553, KM-9555, KM-9557 KM-C9555/SIL, KM-9557/SIL	\$ 850.00 \$ 1,196.00
Range/Resolution	KM-C9551: 0 to ±140 mbar/0.01; 9553: 0 to ±350 mbar/0.1; KM-C9555: 0 to ±2100 mbar/0.1; 9557: 0 to ±7000 mbar/ 1	
Accuracy at +23°C	±0.2% of full scale	
Repeatability at +23°C	±0.1% of full scale	
Connection	1/8" BSP Female	
Battery type/life	6F22 MN 1604, PP3 VT3 UCAR 9V / 90 Hours	
Overload pressure	KM-C9551: 400 mbar, KM-9553:1000 mbar, KM-C9555: 6200 mbar; KM-9557: 13,700 mbar	
Environmental rating	IP67, BS EN60529, IEC 529	
Selectable units	PSI, mbar, Bar, inH ₂ O, inHg, mmHg, Torr, Pa, KPa, mmH ₂ O, cmH ₂ O, Kgcm ⁻²	
<p><i>Differential pressure meter: For air or non-corrosive gas on both the positive (+) and negative (-) pressure ports and liquids (optional silicon protected diaphragm, for use with liquids). The models cover ranges from 140mbar to 7 bar and all display most common measuring units. Positive or negative pressure (vacuum) measurement.</i></p>		

Pressure and Vacuum meter



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<p><i>PS-9303SD</i> Hand held pressure meter from 2 to 400 bar depending on the interchangeable transducers; <i>VC-9210SD</i> Hand held vacuum meter 1-1500mbar absolute. NEW FEATURE! SD Card Data Logging! For easy sharing and analysis with Excel.</p>		
Model	LU-PS9303SD (pressure meter only) LU-PS100-10 (10 bar pressure sensor) LU-VC-9210SD (Vacuum meter + sensor)	\$ 325.00 \$ 210.00 \$ 590.00
Vacuum range	1500 mbar X 1 mbar; 1125 torr x 1 torr	
Selectable units	torr, mm Hg, mbar, KPa, hPa, inch Hg, psi	
Accuracy at +23°C	± 1 % F.S	
Sensor ranges available	2, 5, 10, 20, 50, 100, 200, 400 bar sensor	
Selectable units	Bar, Psi, Kgcm ⁻² , mm Hg, inch Hg, meter H ₂ O, inch H ₂ O, Atmosphere	
Accuracy at +23°C	±0.5% + 1d (meter only)	
Common features		
Sampling time	1 sec to 8hr:59m:59 sec	
Power supply	Alkaline or heavy-duty DC 1.5 V battery x 6 (DC 9V) AC/DC power adapter is optional	
Optional accessories	SD card, AC to DC 9V adapter	
Accessories Included	Instructional manual, hard carrying case	
Application:	Automobile, Industrial, laboratory, heating, ventilation, medical hospitals	

Salt meter



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Model	LU-PSA311	\$181.00
pH Range	0 to 12% salt (% weight)	
Resolution	0.01% salt	
Accuracy	0.5% salt value	
Sampling time	Approx. 0.8 sec	
Power supply	DC 1.5V battery AAA x 4	
<p>Pen type salt meter uses carbon rod electrode for long life, provides fast, accurate readings, with built in temperature sensor for ATC. Application: Water conditioning. aquarium, food processing, laboratory, industrial and quality control.</p>		



Power analyser



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Power quality analyser for single-phase or balanced three-phase system. Capture Transient events (including Dip, Swell and Outage) with programmable threshold (%)
 Accessories included: Test leads 1 set (2pcs), Alligator clips 1 set (2pcs), AC to DC 9V adapter, carry case and instruction manual

Model	LU-PC6011SD (with SD card logging)	\$ 688.00
Voltage range	10 to 600 ACV (Auto range)	
Current range	10 to 2000 ACA (Auto range)	
Other measurements	Power factor, phase angle, frequency, harmonics magnitude, harmonics percentage, Total harmonic distortion, Temperature (type K optional probe)	
Datalogger	Real time data logger, saved into SD memory card	
Sampling time - datalogger	2 seconds to 7200 seconds	
Display	LCD size 60 x 44.4mm; Dot matrix backlit 128 x 64 pixels	
Safety Standard	IEC 1010, CAT IV 600V	
Power source	DC 1.5V battery AA x 2 pcs or DC9V adapter	

Power analyser



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Model	LU-DW6093 \$ 2,490.00	LU-DW6095 \$ 3,490.00
Common features	Apparent Power(9.999MW), Reactive Power (9.999MVAR), Watt-Hour, Power Factor (0.00 to 1.00)	
Frequency range	45 Hz to 65Hz	
Voltage range	10 to 600 ACV	
Sampling time	2 sec to 7200 sec	
Harmonics display (THD)	NA	1-50 th order
Wave form display	NA	Simultaneous harmonics & wave form; Graphic Phase diagram with 3-Phase system parameters
Transient events	NA	Captures Dip, Swell and outage DIP: Very short-term drop-in voltage; SWELL: Increase in voltage; No voltage: OUTAGE
Accessories included	3 x CP-1201 clamp probes; 4 x test leads; 4 x Alligator clips; AC to DC 9V adapter; 2GB SD card; Carry bag	
Optional accessories	200 Amp current probe, CP-200; 2000 Amp current probe, CP-2000; Flexible 3000 Amp current probe CP-3000	



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Power analyser



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Model	LU-DW6195 \$ 3,490.00
Feature	DW-6195 and DW-6095 are the same type of meters, but DW-6195 display screen is colour LCD, replaces the original monochrome LCD. TFT Display is easy to read the measured results instantaneously. Simultaneous display of Harmonics and waveform, display of waveform with Peak Values, Graphic Phase diagram with 3-Phase system parameters are key features in this model
Application	Power quality check, power parameters, phase diagram, harmonics and transients



pH meter

Soil moisture meter



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Model	LU-PH222 \$149.00
Pocket style pH meter with built in data logger for up to 100 readings. Calibration is automated in standard buffer solutions at 4, 7 and 10 or other values. Temperature measurement is included on the multiple display and the reading is used for ATC (automatic temperature compensation). IP67 waterproof	
pH Range	0 to 10 pH
Temperature Range	-5 to 80°C
pH resolution	± 0.02 pH
Temp resolution	± 0.8°C
Sampling time	Approx. 0.8 sec
Accessories included	30 ml buffer solutions 7.00 & 4.00
Power supply	DC 1.5V battery AAA x 4



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Model	LU-PMS 714 \$295.00
Measuring principle: Uses 2 pins electrode to measure the conductive ability of the material, then converter the reading to " % " of moisture content in soil sample	
Measurement Range	0 % to 50 % moisture content on soil.
Display	LCD size: 28 mm x 19 mm
Resolution	0.1 %.
Accuracy	± (5 % + 5 d) F.S
Data hold	Freeze the display reading
Sampling	Approx. 0.8 second
Dimension	Meter body: 172 x 40 x 40 mm Probe body: 220 x Dia.10 mm
Total length	(meter + probe) : 392 mm
Power supply	DC 1.5V battery AAA x 4

Water quality meter



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Model	LU-WA2017SD \$462.00		
Measurands	Range	Resolution	Accuracy
Conductivity	200 uS/2 mS/20 mS/ 200 mS	0.1 uS/0.001 mS/ 0.01mS/ 0.1 mS	± (2% F.S.+1d)
TDS	200/2,000/20,000/ 200,000 PPM	0.1/1/10/100 PPM	± (2% F.S.+1d)
Salt	0 -12% salt (% weight)	0.01% salt	0.5 % salt
Dissolved Oxygen	0 to 20.0 mg/L	0.1 mg/L	± 0.4 mg/L
Oxygen in Air	0-100%	0.1 % O ₂	± 0.7% O ₂
Temperature	0 to 60°C	0.1°C	± 0.8°C
pH	0 to 14.00 pH	0.01pH	± (0.02 pH+2d)
Accessories included	Conductivity/TDS probe/Salt (CDPB-03) & hard carrying case		
Optional accessories	Oxygen probe (OXPB-11)(\$184.00), PH electrode(\$189.00), ORP electrode, ATC probe(\$69.00), Buffer solutions 7.00pH, 4.00Ph (\$49)		
<i>Wide applications: water conditioning, aquariums, beverage, fish hatcheries, food processing, photography, laboratory, paper industry, plating industry, quality control, school & college</i>			

Air quality meter



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Model	LU-AQ9901SD \$996.00		
Measurands	Range	Resolution	Accuracy
Carbon dioxide	0 to 4,000 ppm	1 ppm	± 40 ppm, <1,000 ppm
Temperature	0 to 50°C	0.1°C	± 0.8°C
Carbon monoxide	0 to 1,000 ppm	1 ppm	± 5% + 2 ppm
Oxygen in Air	0-30%	0.1 % O ₂	± 1% reading + 0.2% O ₂
Humidity	5% to 95% RH	0.1% RH	± 3% + 1% RH
Dew point	-25.3°C to 49.9°C	0.1°C	Sum of RH & Temp accuracy
Wet bulb temp	-21.6°C to 50.0°C	0.1°C	Sum of RH & Temp accuracy
Accessories included	CO ₂ probe, humidity probe, O ₂ probe, CO probe, hard case		
Multipurpose meter: Simultaneously three probe's data (%RH/CO ₂ /O ₂ /Temp) or (%RH/CO ₂ /CO/Temp) with time stamp can be recorded			