

Large diameter leakage current clamp tester
with built-in Bluetooth

M-1141 Series

New generation leakage current clamp testers
which enable waveform display and data utilization
by Bluetooth connection with smartphones or tablets



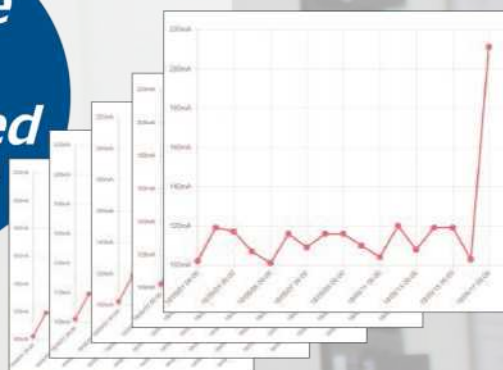
**Waveform
display**

Built-in Bluetooth models

M-1141X • M-1141XR

* M-1140 does not feature Bluetooth function.

**Storage
of
measured
values**



The built-in Bluetooth brings MAX convenience! It's one of the on-site necessities.

In addition to measuring leakage current and load current with high accuracy, the measured data can be stored on a server by linking with a smartphone or tablet with built-in Bluetooth function. The data can be used for "early detection of equipment failure" and as an "indication for deterioration diagnosis".



POINT 1

Storage of measured data

In recent days, labor shortages have become serious, and "more efficient work" is required at the maintenance and management site. The M-1141XR / M-1141X can save measured data to a server via a smartphone or tablet, so the function eliminates saving by handwriting and contributes "working time reduction".
* Connection to the network is required for data saving.

Value	Range	Conditions
3.70mA	AUTO	AVG

POINT 2

Simple display of current waveform

The current waveform can be simply displayed by Bluetooth connection between the instrument and a smartphone / tablet installed the dedicated application. This function enables you to investigate the sources of harmonics and noise, and also compare the waveforms before and after replacing equipment. Since the instrument is more portable than an oscilloscope, it is ideal for simple field investigation.

Advantage

Easy management by linkage with map information

Just select one of the registered measurement points on the map and measure. No complex operation is completely necessary.

Advantage

Central management of multiple measuring instruments

The server management site "MULTI Measure & Trace" enables centralized management of our Bluetooth compatible measuring instruments.

Advantage

Measured data will be stored on the server.

You can see the data trend in a graphic form.
» The data can be used for "early detection of equipment failure" and as an "indication for deterioration diagnosis".
You can get CSV files. (Available as an option)
» The CSV files can be used widely to make a report etc.



One end movable highly durable split core clamp

The instrument employs a one end movable highly durable split core clamp which is not easily bent. Since the CT inner diameter is $\phi 40$ mm, the instrument can be used widely from leakage measurement to load current measurement.



Easy-to-read large LCD

The large LCD with 2-stage display shows the measured value also large. Since the LCD has a backlight, it is easy to read in dark places.



High safety

The instrument employs an elastomeric material that is easy to grip and has excellent impact resistance. Furthermore, the high safety of CAT IV 600 V / CAT III 1000 V is provided.



SPECIFICATIONS

Specification	M-1141XR
Measuring Range (AC)	30 mA / 300 mA / 3 A / 30 A / 300 A / Auto-range
CT Inner Diameter	φ 40 mm
Communication	Bluetooth 4.2, Range up to 10 m (indoor, line-of-sight)
Detection	True RMS
Filter Function	Band pass filter $f_0 = 55$ Hz (Auto-start on power-on)
MAX Hold Function	Maximum displayed value held
Other Functions	Over-range indication, Low battery indication, Auto-power-off, Data hold, Backlight
Sampling Rate	Approx. 2 times/sec
Overvoltage Category	CAT III 1000 V / CAT IV 600 V
Conformable Standards	EN61326, EN61010, RoHS
Applicable Circuit Voltage	AC 600 V or less (insulated wire)
Operating Temperature & Humidity	0 °C to 50 °C, upto 85 %RH
Power Source	Battery CR2450 × 1
Dimensions & Mass	W66 × H205 × D25 mm, Approx. 260 g
Accessories	Battery, Carrying case, Hand strap, Instruction manual

PERFORMANCE

Under the condition of 23 °C ± 5 °C, 80 %RH or less, and 50 / 60 Hz

Range	Resolution	Accuracy
30 mA	0.01 mA	± 1.2 %rdg ± 5 dgt
300 mA	0.1 mA	
3 A	0.001 A	
30 A	0.01 A	
300 A	0.1 A	0 ~ 200 A : ± 1.2 %rdg ± 5 dgt
		200 A ~ 250 A : ± 3.0 %rdg ± 5 dgt
		250 A ~ 300 A : - 5.0 %rdg ± 5 dgt

How to get the software

Dedicated free application

"Multi-Tracer"

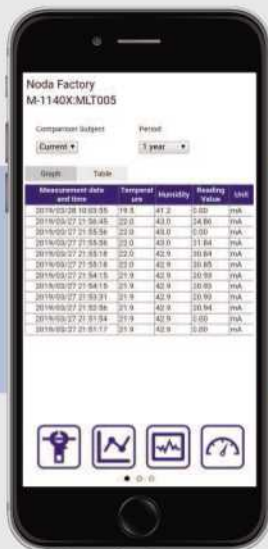


Supported OS: iOS 10 or later, Android 5.0 or later

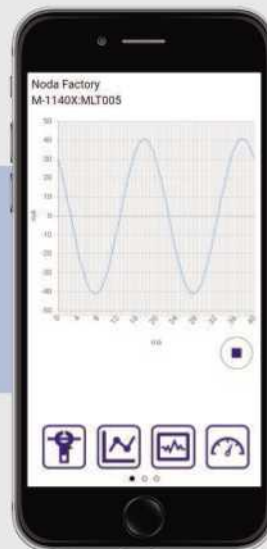
Features of dedicated free application "Multi-Tracer"



Storage of measured values



Review of saved data



Display of waveform



Analog meter-like display



Large diameter leakage current clamp tester with built-in Bluetooth

MCL-800DX

- Bluetooth connection with smartphones or tablets enables waveform display and data utilization.
- Large diameter leakage current clamp tester with φ 74 mm
- Wide range current measurement from 1 mA to 1000 A

* The photograph shows a product under development.

Measuring range	AC: 20 mA / 200 mA / 2 A / 20 A / 200 A / 1000 A / Auto-range
CT inner diameter	74×80 mm
Resolution capability	0.01 mA
Accuracy	± 2 %rdg ± 5 dgt
Communication	Bluetooth 4.2
Power source	Alkaline batteries 1.5 V (LR03) X 3
Dimensions	W138 × H237 × D46 mm
Mass	Approx. 650 g
Accessories	Batteries, Carrying case, Hand strap, Instruction manual

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TAURUS POWERTRONICS PVT LIMITED

Corporate Off.: No. 26, "Mahadimane", 12th Main, 1st Block, Rajajinagar, Bengaluru - 560 010. INDIA., Tel : + 91 80 23012301
 Email : info@tauruspowertronics.com, care@tauruspowertronics.com, WhatsApp : +91 73496 44344
 Sales & Service Off.: No. 648/54, KLE College 2nd Block, Rajajinagar, Bengaluru - 560 010. INDIA.

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