



Additional Functions for Next Series Devices

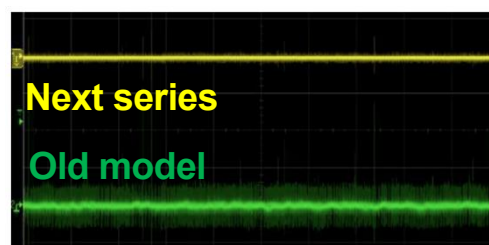
Next Series Devices Evolve with Additional Functions

Next Series is a generic term for IMADA measurement devices with upgraded functions, performances with the essential modifications. IMADA Connected user support site enables users to download instruments and additional functions. This document introduces additional functions for downloads from IMADA Connected.



▲ IMADA Connected user support site

Various services are available through account and product registration. Depending on the registered product, “online software update service” and “download service of various additional functions, software, and instruction manuals” are available (some at cost).



▲ Analog Voltage Comparisons

Increased measurement stability achieved from further noise reduction to the measurement circuit. Compared to the previous product, the smallest displayed digit is more stable, and improved accuracy for measurement values.

Measurement

Displays another smaller digit of the force/torque values

High Resolution Function

Chargeable

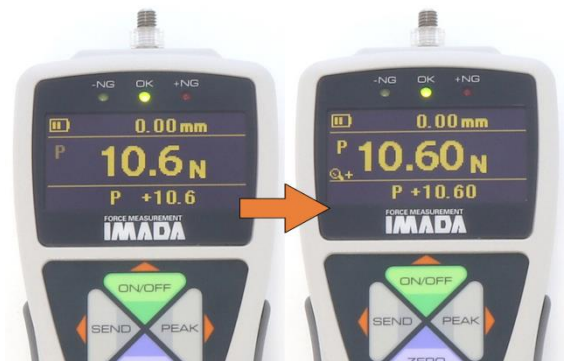
- The minimum digit of the force/torque value displayed on the gauge can be smaller by one digit. (Switchable)
- When the number of digits for reporting is determined by standards or industry standards, the resolution can be changed without purchasing a new measuring instrument.

The minimum digit displayed is determined by the force capacity of the force gauge. Our force gauges show values in at most 4 digits.

e.g.) A digital force gauge with 100N capacity
→ The minimum digit is 0.1 to display 100.0N

By adding High resolution function, the displayed 4 digits moves to the position 1 digit smaller

e.g.) For a force gauge with 100N capacity
The minimum digit is subdivided from the 0.1 position to the 0.01 position
► The Measured value display from 0.01N to 99.99N
- 100N cannot be displayed as a result of moving the 4-digit display to the position one digit smaller.



▲ High resolution function added to ZTA-500N

[NOTE]

- Enabling this function does not change the instrument's measurement accuracy.
- The minimum display digit is subdivided while the number of digits remains at 4, so the maximum display digit is also reduced by one digit.
- When enabling this function, it is necessary to set the unit of measurement to "mN" or "N-cm" for models with a 3-digit decimal point display.

Measurement

Automatic conversion of measured force values into pressure and peel force units Pressure Conversion Function /Peel Strength Display

Free



- The function displays the result of converting the measured force value into a pressure unit and peeling force unit on a force gauge display in real time.
- Set the conversion unit, surface area (pressure), and the sample width (peel force) in advance, the measured values are automatically converted to the specified unit.

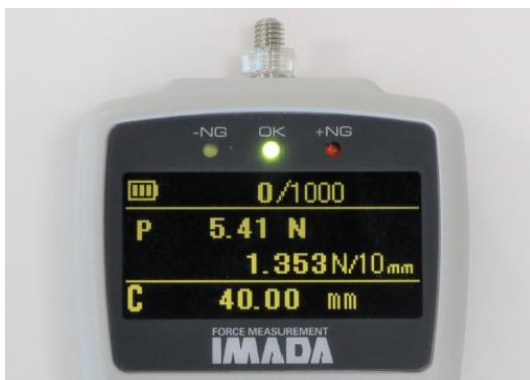
【Available Conversion Units (pressure)】

Pa, kPa, MPa, N/m², N/mm²

【Available Conversion Units (peel force)】

N/cm, N/mm, N/10mm, N/12.5mm, N/15mm, N/20mm, N/24mm,
N/25mm, N/25.4mm, N/m, kN/mm, kN/cm, kN/m

- Available conversion units vary depending on the measuring instruments)



"Peel Force/Pressure Data Import Function" downloaded to the Force Logger Next, enable the data import in the converted units. Graphing not available.

Measurement

Easy setting and saving High/Low Setpoints

Preset Test Conditions Function

Free

- The following two settings can be saved as presets up to 30 types. Saved presets can be easily called, improving measurement efficiency and preventing incorrect conditions.
 - Setting of High/Low setpoints for a pass/fail judgment or a force control combined with the measurement stand
 - +/- setting for tension/compression
- By using it in combination with the standard setting lock function, High/Low setpoints setting can be limited to selection from preset conditions.



▲ Each preset has a number, so it is possible to instruct the measurement condition by the number. In addition, each measured data has a history of which number preset is used.

Measurement

Save and Reset the Peak Value for Repeated Measurement

Continuous Peak Mode Function

Free



- A function for continuously measuring and saving peak values without pressing the SEND button. Improves operational efficiency during repeated measurements.
- Usually, to save the peak value, the SEND button must be pressed for each measurement, and the ZERO button must be pressed to reset the peak value before starting the next measurement.
- Conditions must be met to acquire peak value continuously, such as the peak value being 10% or more of the measuring instrument's capacity.

For details, please refer to the IMADA Connected for details.

Useful Additional Functions for Free Downloads

Free

Failure Prevention

Overload Pre-alarm Function

Pre-alarm: When measured values exceed 90% of the capacity of the gauge

Output

RS232C Print Function

Printing measured values with connected RS232C printer

Output

Serial Output for Embedded

Enables serial output for incorporation into production equipment and measurement systems such as PLCs

Device Management

Calibration Reminder Function

The registered calibration date is notified in advance

Next Series Products



- The ACT-1000N is applicable to firmware version 2.00 or later, and other models are applicable to firmware version 5.00 or later. For models with older boards, it is possible to convert them to the Next Series for a fee. Please contact us for details.
- Additional functions available for download vary depending on the model. Please check the chart below.

[Compatibility Chart by Models for Additional Function Downloads]

Additional Functions	ZTA/ZTS series	eZT series	IPTS series	ACT-1000N	FA Plus2 series	HTGA/HTGS series	DTXA/DTXS series
High Resolution Function	○	○	×	×	○	○	○
Peel Strength Display	○	○	×	×	○	×	×
Pressure Conversion Function	○	○	×	×	○	×	×
Preset Test Condition Function	○	○	×	×	○	○	○
Continuous Peak Mode	○	○	×	×	○	○	○
Overload Warning Function	○	○	○	×	○	○	○
RS232C Print Function	○	○	×	×	○	○	○
Serial Output for Embedded	×	×	×	○	×	×	×
Calibration Reminder Function	○	○	○	×	○	○	○

For Next Series products, by registering an account and registering products with IMADA Connected, you can receive “online software update service” and “download service of software and instruction manuals” in addition to “download service of additional functions” (some of them are chargeable). For more details, please refer to the service introduction video available on the IMADA Connected top page.

IMADA Connected

<https://www.imada-connected.com/>



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