Separate type digital torque driver

WDISR-RL series

The detector is small and lightweight. For managing small torque. Since it is a built-in battery type, it can be used for a wider range of purposes.









It works with a personal computer or PLC to manage torque measurement more highly.

- A color display that can display various information.
- Data output is standard equipment for both USB and RS232C.
- Numerical values such as pass / fail conditions can be set up to 10 channels.
- The pass / fail judgment is displayed in color for easy understanding.
- Built-in battery drive.

●Color display that can display various information.





●Data output is standard equipment for both USB and RS232C.

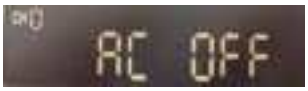



●Setting various measurement parameters



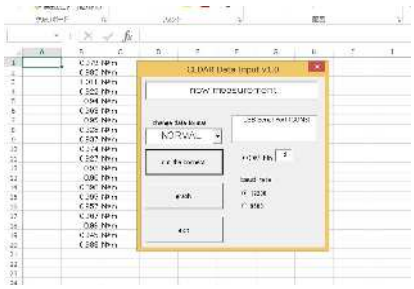






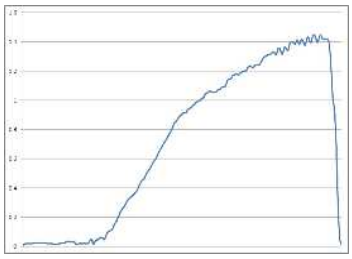

Measurement example

Saving and managing screw tightening data
Saving screw tightening data
Data transfer to personal computer

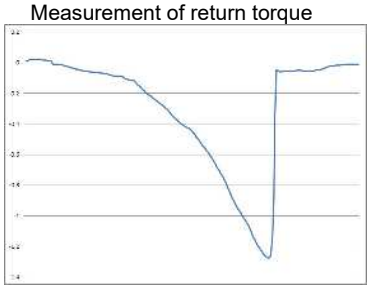


Various measurements of screw tightening
Screw break test, yield point estimation, sampling inspection, Measurement of return torque, measurement of starting torque of rotating body, etc.

Tightening test



Measurement of return torque



Works with "PC" and "PLC"
Various commands can be input from PLC or personal computer. Finer torque management is possible with external control.



Command list

Clear signal: Clears the display and outputs the held numerical value as data and saves it in memory.
Measurement mode: Change the measurement mode.
Measurement channel: Change individual channels for which conditions such as pass / fail judgment are set.
Peak hold upper limit : Change the pass / fail judgment upper limit of the current channel.
Peak hold lower limit: Change the pass / fail judgment lower limit of the current channel.
Peak down lower limit: Change the peak down judgment start lower limit of the current channel.
Real-time output lower limit: Changed the output lower limit of real-time output.
Auto clear time: Changed the time to automatically clear after the measurement is completed.
Buzzer notification: Changed the buzzer notification method.

WDISR -RL series
Specification

Model	WDISR-RL005	WDISR-RL05	WDISR-RL6	WDISR-RL10
Applications	It is a torque measuring equipment to measure the tightening torque and loosening torque of screws.			
Power supply	Internal battery (12 hours continuous operation time, 3 hours charging time)			
Rate input voltage	12V DC			
Measurement range	0.20 ~ 50.00 [mN-m] (Note 1)	2.0 ~ 500.0 [mN-m]	0.020 ~ 6.000 [N-m]	0.20 ~ 10.00 [N-m]
Measurement Unit	gf-cm / ozf-in / mN-m / cN-m	kgf-cm / lbf-in / mN-m / cN-m	kgf-cm / lbf-in / N-m / cN-m	
Accuracy	±2.0%±0.3mN-m	±0.5% (If 499 digit or less, ±3 digit.)		
	*Maintain a constant temperature during measurement.			
Sampling rate	1000 data / 1sec			

Measurement mode

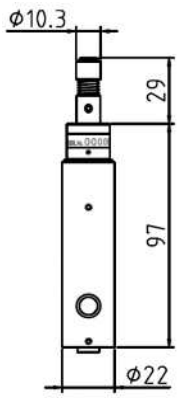
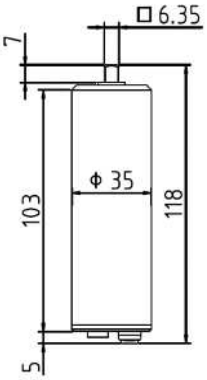
Measurement mode		Data output	Contents
Peak hold	PP	○	Measure the peak torque.
Peak down	PD	○	Measure the firs peak torque.
Real time output	C	○	The data output cycle is approximately 180 data / 1 second.
Track	TR	―	Mainly used for calibration.

If the measurement mode is TR, the data isn't outputted.

Data output	Wired (ASCII format)	
Memory size	800 data	
Auto power off	Power off after 10 minutes of non-use Refer to "5.3. Auto Power Off Setting" for how to cancel the power off.	
Accessories, Attachments	Detector (Refer below)	
	Detector cable	
	Plus bit #0, #1	Plus bit #1, #2
		Bit holder
		One way bit holder
	―	Auxiliary handle×2
	AC adaptor	
	Rubber foot	
	Result of calibration, Certification on calibration, Traceability system figure	

Note 1 WDISR-RL005 measurements are in 0.05 mN-m increments.

Detector

Model	RL005 / 05	RL6 / 10
Shapes (Unit: mm)		
Socket	Φ4 (HIOS shank)	6.35sq (Square drive)

Ordering number

The order number indicates the model of the indicator followed by the 'model of the detector', 'detector cable length', 'Packing', 'destination' and 'AC adapter plug'.

WDISR – RL05 – L1 – C – O 1

Plug	
1	A plug (Japan, Taiwan, USA)
2	A plug (China)
3	C plug
4	F plug
5	G plug

Destination			
J	Japan	O	Outside Japan

Packing	
C	Cardboard
A	Plastic case

Detector cable length	
L1	1 meter
L2	2 meters
L4	4 meters

Mode of the detector
RL005
RL05
RL6
RL10

model of the indicator

About the AC adapter

The certification mark differs depending on the specified plug.

Plug	certification
A plug (Japan, Taiwan, USA) A plug (China) C plug	PSE、FCC、CCC、BSMI、CE
F plug G plug	PSE、CE、UKCA、KC

Packing

The specifications of the case are shown below.

Packing	**-C**	**-A**
Specifications	**Cardboard**	**PP**
Exterior / Interior	 	 

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The contents of a catalog may change specification and a design without a preliminary announcement.