

DLT1133/1173/1633/1673 series

Features

- Store the measured data up to 100 ones even after the power is turned off, preventing any data loss. In addition, the data can be fed into a personal computer through RS232C connector, realizing paperless control for measured torque data.
- Free program designed for uploading the torque data stored in "delvo" torque checkers into computers can be downloaded from NITTO KOHKI's website. <http://www.nitto-kohki.co.jp/e/>
- Can run 15 hours continuously with the battery fully charged (more than two weeks on the condition of one-hour operation per day). In addition, it is of energy saving type with AUTO POWER OFF function (to turn OFF power automatically when left unused for 10 minutes).



DLT1633

Specifications

Model	DLT1133	DLT1173	DLT1633	DLT1673
Measurement Range (N·m)	0.015 - 1.5		0.15 - 6.5	
Calibration Precision	Within $\pm 0.5\%$ (Full Scale), For 0.2 N·m or less, ± 1 digit		Within $\pm 0.5\%$ (Full Scale), For 2 N·m or less, ± 1 digit	
Display	4-digit digital display (Single-line)		Data sampling : 1,000 times/sec	Display rate : 12 times/sec
Measuring Unit	kgf · cm · N · m · lbf · in (selectable)			
Data Memory	100 pieces of data			
Measuring Direction	CW and CCW			
Measuring Mode	3 modes : PD-TR-PP			
Auto Power Off	Powered off if left untouched for 10 minutes			
External Output	As per RS232C output (single-direction, no procedure, 100 data items)		Mitsutoyo Digimatic (sequential output)	
Analog Output	Approx. 1.5 V max		Approx. 1.0 V max	
Rechargeable Battery	No zero offset ; identical waveforms produced in PP, PD, and TR modes Nickel-cadmium battery			
Charger Type	DLE1833	DLE1873	DLE1833	DLE1873
Input Voltage for Charger	100 V AC, 50/60 Hz	230 V AC, 50/60 Hz	100 V AC, 50/60 Hz	230 V AC, 50/60 Hz
Charging Time	8 hours			
Continuous Operation Time	15 hours			
External Dimensions (mm)	W160 x D110 x H47			
Mass (kg)	1.0			

Standard Accessories

	DLT1133	DLT1173	DLT1633/DLT1673	
Joint/Bit	Bit Joint	Bit Joint	Bit Joint	Spring for Joint
Model	DLW4340	DLW4430	DLW4360	DLW4660
Measuring (N·m)	0.015 - 1.5	0.15 - 1.5	0.15 - 6.5	0.15 - 1.5

Optional Accessories

Model	Part No.	Model	Specifications	DLT1133	DLT1173	DLT1633/DLT1673
Bit Joint	TD03305	DLW4330	OD 4 mm type, Torque Range : 0.015 to 0.25 N·m	○	○	—
	TD03306	DLW4340	OD 4 mm type, Torque Range : 0.15 to 1.5 N·m	◎	○	○
	TD03307	DLW4350	Hex 5 and Hex 6.35 types, Torque Range : 0.15 to 1.5 N·m	○	○	○
	TD03308	DLW4360	Hex 5 and Hex 6.35 types, Torque Range : 0.15 to 6.5 N·m	—	—	◎
Screw Joint	TD03309	DLW4430	#1 screw type, Torque Range : 0.15 to 1.5 N·m	○	◎	○
	TD03310	DLW4530*	#2 screw type, Torque Range : 0.15 to 5 N·m	—	—	○

◎ : Standard accessories ○ : Available as option — : Unsupported

* DLW4530 must be used at 5 N·m or less.

Bit Joint



Screw Joint



Spring



Selection of Torque Checker

DLT1133 / DLT1173 (for miniature screw)	DLT1633 / DLT1673
DLV3300 series*1 / DLV5700 series / DLV5800 series / DLV7300 series / DLV7800 series / DLV7000 series / DLV8000 series / DLV7400A series	DLV7100 series / DLV8100 series / DLV7200 series / DLV8200 series / DLV7500 series / DLV8500 series / DLV3100 series*2 / DLV30 series

*1 A reversible screwdriver is required to loosen the measuring joint.

*2 A reversible screwdriver is required to loosen the measuring joint. Screw type joint is required.