



Features

Maintaining high assembly quality with ease

- Measured data is stored even after the power is turned off, preventing any data loss
- Energy saving type with AUTO POWER OFF function (Power is automatically turned off when left unused for 10 minutes)
- A program designed for uploading the data stored in the "delvo" torque checkers to a computer is available to download free from the NITTO KOHKI website:

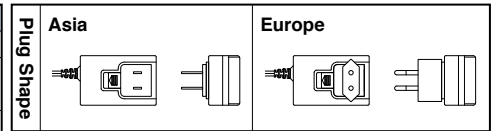
www.nitto-kohki.co.jp/e/prd/e-dl/delvo.html



Click

Specifications

Model	DLT1173A	DLT1673A	DLT1973A
Measurement Range (Nm[lbf-in])	0.015 - 1.500 [0.13 - 13.3]	0.15 - 10.00 [13.5 - 88.5]	4.00 - 12.00 [35.4 - 106.2]
Calibration Precision	Within ± 0.5% (Full Scale) For 0.2 Nm [2 lbf-in] or less ± 1 digit	Within ± 0.5% (Full Scale) For 2 Nm [20 lbf-in] or less ± 1 digit	Within ± 0.5% (Full Scale)
Display	4-digit digital display (Single-line) Data sampling: 1000 times/sec. Display rate: 12 times/sec.		
Measuring Unit	kgf • cm, Nm, lbf • in (selectable)		
Data Memory	800 pieces of data		
Measuring Direction	CW and CCW		
Measuring Mode	3 modes: PD-TR-PP		
Auto Power Off	Power off if left untouched for 10 minutes		
External Output	As per USB output Mitsutoyo Digimatic		
Analog Output	Approx. 1.5 V max.	Approx. 1.0 V max.	Approx. 1.1 V max.
	No zero offset; identical waveforms produced in PP, PD, and TR modes		
Continuous Operation Time	20 hours		
External Dimensions (mm)	W160 × D110 × H47 [W6.3" × D4.33" × H1.85"]		W200 × D112 × H48.5 [W7.9" × D4.41" × H1.89"]
[inch]			
Mass (g [lbs])	1100 [2.43]		1400 [3.09]
Rechargeable Battery	Nickel metal hydride battery		
Charger Type	DLE1833A		
Input Voltage for Charger	100 - 240 V AC, 50/60 Hz		
Charging Time	4 hours		
Standard Accessories	• Screw Joint (DLW4430)	• Bit Joint (DLW4360) • Spring for Joint (DLW4660)	• Soft Joint (DLW4000)



Selection of Torque Checker

DLT1173A	DLT1673A	DLT1973A
DLV3300*2	DLV7100/7200/	DLV45A/70A
DLV5700	8100/8200	DLV45S/70S
DLV5800	DLV7500/8500	DLV45A/70A
DLV7300	DLV3100*3	(automation)
DLV7000/8000	DLV30A/45A	
DLV7400A	DLV30S/45S	
DLV02/12	DLV16	
DLV04C/10C	DLV7104/8104/8204	
	DLV30A/45A	
	(automation)	

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

*3: A reversible screwdriver is required to loosen the measuring joint. Screw joint is required.

Optional Accessories

	Model	Part No.	Shape	Torque Range	DLT1173A	DLT1673A	DLT1973A
Bit Joint	DLW4330	TD03305	OD 4 mm [0.16"] type	0.015 - 0.25 Nm [0.13 - 2.2 lbf-in]	○	—	—
	DLW4340	TD03306	OD 4 mm [0.16"] type	0.15 - 1.5 Nm [1.3 - 13.3 lbf-in]	○	○	—
	DLW4350	TD03307	Hex 5 [0.2"] and Hex 6.35 [1/4"] types	0.15 - 1.5 Nm [1.3 - 13.3 lbf-in]	○	○	—
	DLW4360	TD03308	Hex 5 [0.2"] and Hex 6.35 [1/4"] types	0.15 - 6.5 Nm [1.3 - 57.5 lbf-in]	—	◎	—
Screw Joint	DLW4430	TD03309	screw type (Bit size No.2)	0.15 - 1.5 Nm [1.3 - 13.3 lbf-in]	◎	○	—
	DLW4530*1	TD03310	screw type (Bit size No.2)	0.15 - 5 Nm [1.3 - 44.3 lbf-in]	—	○	—
Soft Joint	DLW4000	TD04123	Hex 13 [0.51"] type	4.0 - 12.0 Nm [35.4 - 106.2 lbf-in]	—	○	◎
Hard Joint	DLW4040	TD04124	(Hex. head bolt)		—	—	○
Spring	DLW4660	TV03826	Spring for DLW4340, 4350, 4430		○	◎	—

*1 DLW4530 must be used at 5 Nm [44.3 lbf-in] or less.

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

Bit Joint



Screw Joint



Soft Joint



Hard Joint



External Dimensions

