

For delvo Brushless Type C Series

Screw Fastening Monitor Model DTM10/DTM45

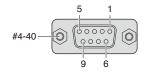
For traceability management! Outputs torque value from a screwdriver (converted value)



■ Specifications

Model		DTM10	DTM45	
Connectable models	Electric screwdriver	DLV04C10L-AZ DLV10C10L-AZ	DLV45C12L-AZ DLV45C12P-AZ	
models	Controller	DCC0101X-AZ	DCC0241X-AZ	
Transmission data		Operation channel/Converted current value*		
		Screw fastening time	Screw fastening time/Rotation signal	
Communication method		RS-232C *When connecting to a PC, please use a conversion adapter available on the market.		
Standard Accessories		Connection cord DLW9075 (2 m)Rubber feet	• Connection cord DLW9078 (2 m) • Rubber feet	

RS-232C Specifications: D-SUB 9-pin (female) Screw: Inch female screw (#4-40)





^{*}Converted current value: Motor current value at torque-up converted to a value between 0 to 4095



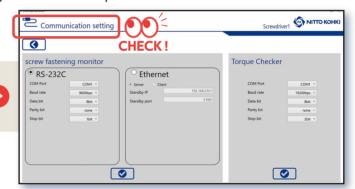
How to measure output torque (converted value)

(Measurement method: TIME)

1. Perform the communication setting for Screw Fastening Monitor and Torque Checker.



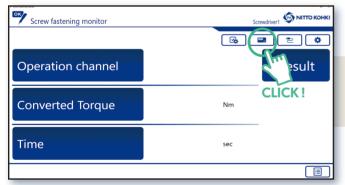




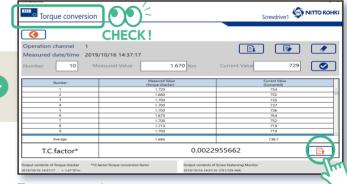
Communication setting

*Please download a driver for RS-232C from a website of each company.

2. Measure the torque conversion factor for each channel.



Main screen



UPDATE

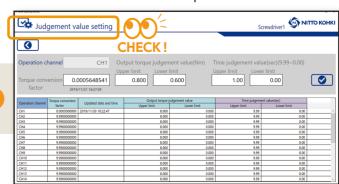
Torque conversion

*Use Torque Checker or screw joint for the subject models. (Refer to the compatibility chart on the right page.)

 $oldsymbol{3}_{oldsymbol{\cdot}}$ Set the output torque judgement value for each channel as required.



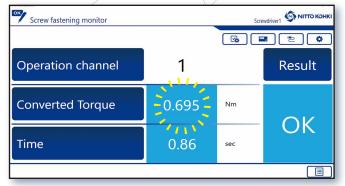
Main screen



Judgement value setting

*The operation channel can be set as follows. DLV04C/10C: up to CH4 DLV45C: up to CH30

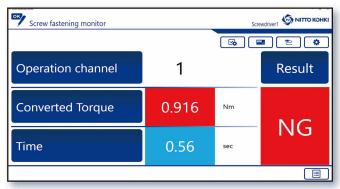
4. Measure the torque with Torque Checker.
Check the difference of the value between the software and Torque Checker.





The result is OK(Pass).

5. OK(Pass)/NG(Fail) can be judged by the output torque (converted value) and screw fastening time.

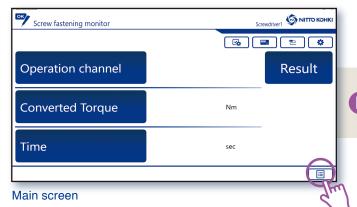


The result of the output torque is NG(Fail).



The result of the screw fastening time is NG(Fail).
*Only DTM45 can switch time (sec) and rotation signal (signal).

6. The fastening data log can be checked.





The shape of

Fastening Data Log

DLW4540

DLW4550

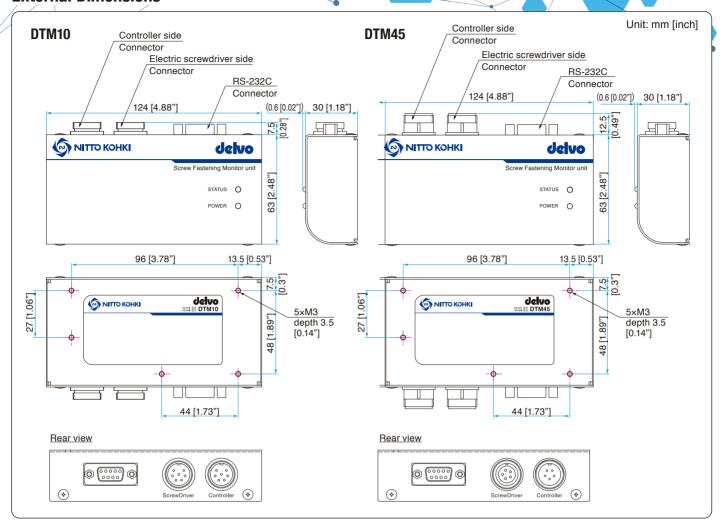
DLW4560

*The measured data is a reference value obtained by converting the load current of the electric screwdriver to torque, which is not a guaranteed value.





External Dimensions



Connectable electric screwdrivers

For DTM10

Model		DLV04C10L-AZ K	DLV10C10L-AZ K	
Starting Meth	nod	Lever Start		
Power Source	e	From dedicated controller		
Torque Adjustment		1 to 100% (From 1 to 100% in 1% increments)		
Torque (Nm [lbf.in])	SOFT fastening setting (1000 min ⁻¹ setting)	0.05 to 0.4 [0.4 to 3.5]	0.2 to 1.0 [1.8 to 8.9]	
	SOFT fastening setting (600 min ⁻¹ setting)	0.05 to 0.35 [0.4 to 3.1]	0.2 to 0.45 [1.8 to 4.0]	
	HARD fastening setting	0.05 to 0.4 [0.4 to 3.5]	0.2 to 1.0 [1.8 to 8.9]	
Free Speed	SOFT fastening setting	600 to 1000		
(min ⁻¹)	HARD fastening setting	100 to 1000		

For DTM45

Model			DLV45C12L-AZ K	DLV4512P-AZ K	
Starting Method			Lever Start	Push to Start	
Power Source			From dedicated controller		
Torque Adjustment			1 to 100% (From 1 to 100% in 1% increments)		
Torque (Nm [lbf.in])			0.6 to 4.5 [5.3 to 39.8]		
Free Speed	SOFT	(min ⁻¹)	400 to 1200		
	fastening setting	Speed Level	Level 1 to 9		
	HARD	(min ⁻¹)	100 to 700		
	fastening setting	Speed Level	Automatically set by torque setting		



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