

TPC/TPC2

Protocol
Converter

Auxiliary

RS232C/LAN Data Output

- Convert Tohnichi interface device format to other protocols
- Incorporate time and VIN data with tightening record by the internal clock and an optional barcode reader



TPC



TPC2

Note

To use custom made protocol function, required prior consult

Optional Accessories

AC Adapter

Model	Power Supply
BA-8W	AC100V-240V

Input/Output	LAN x 1, RS232C x 2
Display	Power Status LED x 1, Communication status LED x 1
Applicable Tohnichi Interface	R-CM+M-FH/M-FD/M-BLA/M-BLE R-FH256, R-BLA, R-BLE, R-BT, CD5, R-FHD256 CEM3-BTA, PTA-G-BT
TPC Available protocols	ATLAS COPCO® ACOP Serial connection, ATLAS COPCO® ACOP Socket connection, STANLEY® Custom made Protocol*
TPC2 Available protocols	ATLAS COPCO® ACOP Serial connection, ATLAS COPCO® ACOP Socket connection, ATLAS ToolsNet® Custom made Protocol*
Power	DC24V 18V-38V / AC 100V-240 with optional AC adapter
Dimensions	W82 × D33 × H80mm
Operating Temperature	0-40 °C
Weight	146g

ATLAS COPCO, ToolsNet is registered trademark of Atlas Copco Aktiebolag
STANLEY is registered trademark of Stanley Logistics, LLC

Setting software



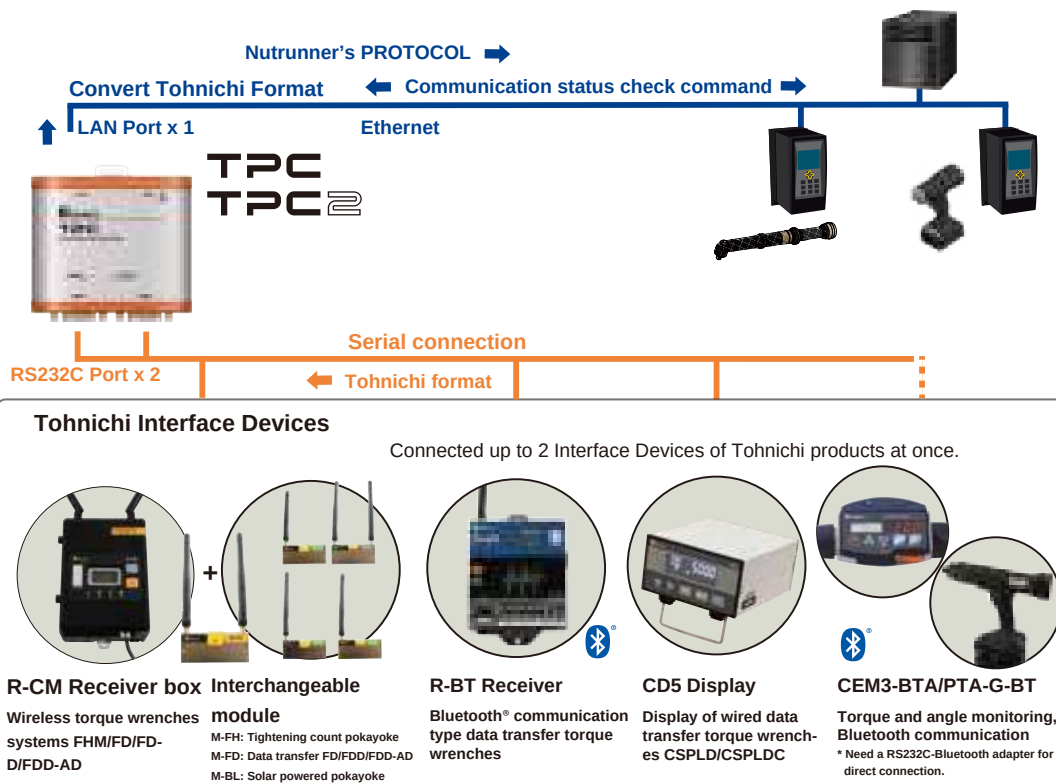
Protocol setting



IP address setting

• Convert Tohnichi Input/Output Format into a Variety of Protocols

Use as Protocol Converter and Serial to Ethernet device



CD5

Compact Display



CD5



Digital Sensor Contacts Direct Reading Comparator Judgment

- Digital display for Tohnichi's torque sensor, strain gauge, products
- OK or NG judgment capability with upper or lower limit setting function
- Easy to confirm judgment with blue and red digits displayed

Model
CD5

Display	Negative type liquid crystal
Resolution	±1/5000 (±1.0 to ±3.0mV/V) ±1/2000 (±0.5 to ±1.0mV/V) 1/2000 (±0.1 to ±3.0mV/V)

CD5 Optional Accessories

Printer

Model
EPP16M3

Input Voltage	±3.0mV/V
Accuracy	Nonlinearity ±0.05% F.S. Zero point drift ±0.1μV/°C (TYP.) Gain drift ±0.01%/°C (TYP.)

Data Filing System

Model	Media
DFS	CD-ROM

Calibration Methods	Equivalent input calibration Calibration by actual weight Calibration using sensor-equipped torque wrench
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Data Memory	1000 readings
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External Input	RESET/COMP/CLEAR/CHSW
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Communication	RS232C compliant, Analog output, HI, OK, LO relay output
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Power	AC100-240V±10%
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Operating Temperature	0-40 °C
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Dimension	150W × 190D × 94H
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Weight	approx. 1.8 kg
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Connecting Cable (P.50)

Part #	Applicable Model	Plug
383	CD5 - PC, EPP16M3	D-SUB 9 Pin Female

EPP16M3

Printer



EPP16M3

Auxiliary RS232C Data Input

- Printer for digital torque equipment
- Terminal Line Dot printing

Model
EPP16M3

EPP16M3 Optional Accessories

Roll Paper

Part #	Description
1408	Roll Paper

EPP16M3 Specifications

Printed Method	Thermal Line Dot
Total Dot	384 dots
Dots per inch	203 dpi (8dot/mm)
Printing Capacity	32
Number of Dots for Character	12 × 24
Character Size	1.5 × 3.0 mm
Paper Width/Print Span	58 / 48 mm
Thermal Paper Outer Diameter	φ50 mm
Max Printing Speed	80 mm/sec.
Power AC	100 - 240V ± 10% 50/60Hz
Operating Temperature	0 ~ 40 °C
Humidity [%RH]	Under 85 (No condensation)
Weight	approx. 0.27 kg

Connecting Cable

Part #	Applicable Model	Plug
383	DOT4-G/LC2/LC3-G/CD5/TDT2/TDT3-G/TME2	D-SUB 9 Pin Female
561	LC/TDT/CD42/TCC	
575	CEM2/CEM3-G/CEM3-P/CTA2-G/CTB2-G/R-DT999	
579	CTA/CTB	

RoHS

R-DT999

Data Tank



R-DT999

Auxiliary Infrared Input RS232C/ Data Output

- Infrared data collector for torque equipment
- 999 data storage
- External keypad setup functions

Model
R-DT999

R-DT999 Optional Accessories

Printer

Model
EPP16M3

Data Input	Infrared data input (Tohnichi format only)
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Display	6 digits, 14segments LCD 4 digits, 7segments LCD 4 digits, 7segments LED
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Applicable Model	CEM3-G, CEM2, ST, ST2, STC, CTA, CTB
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Data Output	RS232C compliance, USB connector serial output (*USB 1.1)
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Power	DC5V 2A
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Dimensions	W80 × D125 × H32mm
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Standard Accessories	AC adapter (100-240V±10%)
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Operating Temperature	0-40 °C
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Weight	205g (body only)
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Data Filing System

Model	Media
DFS	CD-ROM

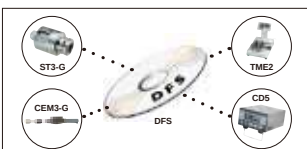
Connecting Cable (P.50)

Part #	Applicable Model	Plug
575	R-DT999 - PC, EPP16M3	D-SUB 9 Pin Female
584	R-DT999 - PC	USB A Type

Note Contact Tohnichi for other types of connector shapes.

DFS

Data Filing System



Auxiliary CD

- Data processing software
- Statistics, Standard deviation, Cp values, Charts

Model	Maximum value, minimum value, data range, mean value, standard deviation and Cp value are calculated to make a histogram on the display.
DFS	

DECA/DECA2

10:1 Ratio Torque
Multiplier

Auxiliary

Straight

Rotary

- Multiplied torque output increases by 10 times
- Ideal for applying high torque values with less force
- DECA2 is improved usability by ratchet function and compact body

RoHS

Accuracy ±5%



DECA4500N



DECA1800N2

Model	Output Torque			Torque Ratio	Dimension [mm]				Weight [kg]	Applicable Universal Arm
	[N·m]	[kgf·m]	[lbf·ft]		Overall Length	Dia.	Output Sq. Drive	Input Sq. Drive		
	Min.-Max.	Min.-Max.	Min.-Max.							
NEW DECA450N2	90-450	9-45	65-325	10:1	151	52	19.07	9.53	1.4	UA450N
NEW DECA900N2	180-900	18-90	130-650		190	63	25.4	12.7	2.5	UA900N
NEW DECA1800N2	360-1800	36-180	260-1300		228	77.5			4.5	UA1800N
NEW DECA3000N2	600-3000	60-300	434-2170		270	95			31.75	8.2
DECA4500N	900-4500	90-450	650-3250		367	110	38.1	19.05	12.5	UA4500N
DECA9000N	1800-9000	180-900	1300-6500		464	140	50.8	25.4	34	UA9000N
DECA18000N	3600-18000	360-1800	2600-13000		540	172	63.5		60	UA18000N

Note

1. Universal Arm is optional.
2. DECA9000N and DECA18000N are supplied on request.

Standard Accessories

1. Metal Case (for DECA4500N-DECA9000N only)
2. Portable Handle (for DECA4500N-DECA9000N only)
3. Metal Case Caster (for DECA18000N only)

DECA450N2 with
Universal arm & Torque wrench

AP2/DECA/DECA2 Optional Accessories



SA



UA

SA Shell Arm

- Light weight reaction arm

RoHS

Model	Standard Socket Length [mm]	Max. Torque [N·m]	Weight [kg]
SA400N	50	400	0.7
SA700N	62	700	1.2
SA1200N	62	1200	1.6

Note: Cannot receive reaction force from counterclockwise direction, in this case use UA as the alternative.

UA Universal Arm

- Heavy duty reaction arm

RoHS

Model	Max. Torque [N·m]	Weight [kg]
UA450N	450	1.2
UA900N	900	2.6
UA1800N	1800	4
UA3000N	3000	7.2
UA4500N	4500	10.9
UA9000N	9000	18
UA18000N	18000	30

Note: UA4500N/9000N/18000N are supplied on request.

Adapter for Torque Wrench Tester



Down Adapter



Ratchet Adapter

DA Down Adapter for Torque Wrench Testers

- Compact adapter to reduce the size of square drive

RoHS

Model	Part #	Dimensions [mm]			Capacity [N·m]	Weight [g]
		Square Drive (Male)	Square Drive (Female)	Height		
DA3-2	296	9.5	6.35	12	14	5
DA4-3	297	12.7	9.5	15	18	11
DA6-4	298	19.0	12.7	19	28	34
DA8-6	299	25.4	19.0	26	35	66
DA12-8	300	38.1	25.4	44	55	320

RA2 Ratchet Adapter for Torque Wrench Testers

- Rotates wrench to proper testing position on tester
- Gear action 3.75

RoHS

Model	Dimensions [mm]				Capacity [N·m]	Weight [kg]
	Sq. Drive (Male)	Sq. Drive (Female)	Height	Outside Dia.		
RA3mk2	9.5	9.5	37.3	55	70	0.28
RA4mk2	12.7	12.7	52.5	70	220	0.6
RA6mk2	19	19	69.3	115	850	2.3
RA8mk2	25.4	25.4	92.8	161	2100	6.3
RA12	38.1	38.1	111	234	3000	12.6

EVERTORQUE

Lubricant for repair



- For repairs of torque wrenches and torque screwdrivers

Model	Part #
EVERTORQUE	830

Evertorque Application List

RoHS

	Applicable Model	Applicable Part
Click Type Torque Wrench	QU/QL/CL/PL/CL/CL	Thrusting; Steel Ball, Scale Piece, Adjusting Screw; Thread
	WQL	Thrusting; Steel Ball, Scale Piece, Adjusting Screw; Thread, Knob, Protector; Joint
	MPQL	Thrusting; Steel Ball, Scale Piece, Adjusting Screw; Thread, Ratchet, Marker Pipe; Joint
Click Type Torque Screwdriver	RTD, RNTD	Main Shaft, Toggle Sheet; Serration
Semi-Automatic Airtork	RTD, LTD, BMLD	Case, Adjusting Piece; Serration
Fully-Automatic Airtork	A/AC	Thrusting; Steel Ball, Scale Piece, Adjusting Screw; Thread
Multiple Unit	AP, AS	Reduction Clutch; Clutch
	MC, ME, DCME	

