

SUPER "INTELEC" SYSTEM UEC-4800(SD) SERIES CONTROLLER

On the fastening job, it is very important to select the correct tools to meet International Standards and customer's demands. UEC-4800(SD) series is a multi-function controller which complies with various fastening conditions by controlling a transducerized tool very accurately. Ethernet (TCP / IP) is standardized to meet the needs of the times.

◆ UEC-4800TPA/E(SD)

Features

- 1) Programming is easy on front touch panel. You can also upload your programme from PC.
- 2) UEC-4800(SD) can be used with a various types of transducerized tool.
 - a. Oil-Pulse Tools fitted with a Magnetostrictive Transducer UA-MC series, ALPHA-MC series, UEP-MC series (UEPD Driver is required separately.)
 - b. Oil-Pulse Tools fitted with a Strain-Gauged Transducer U-EC series, UX-EC series
 - c. Pneumatic Tools fitted with a Strain-Gauged Transducer UAN-M series, UOW-M series, UNR-NT series
- 3) High Reliable Torque Control & Monitor
- 4) Ethernet (TCP / IP) capable.

Functions

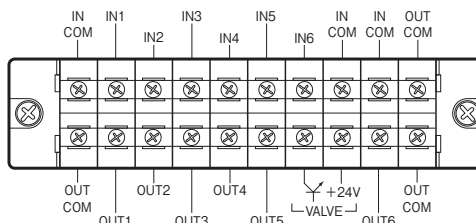
- 1) You can choose between Torque Control and Monitor. You can detect various errors and control the job with fastening counter.
- 2) You can see 'Torque Wave' data on both front touch panel and PC.
- 3) UEC-4800(SD) can be used for 8 different fastening applications.
- 4) Front panel, PC display or buzzer will tell you Input / Output (terminal blocks & tool wiring) checks and Errors.
- 5) UEC-4800(SD) memorizes cumulative fastening numbers and pulse numbers from the start of operation.
- 6) UEC-4800(SD) memorizes max. 12,000 fastening data. Standard deviations, Cp value, Cpk value can be analyzed instantly from the stored data within the controller. When you connect UEC-4800(SD) to PC, you can graph the statistical data.
- 7) By using Input / Output terminals UEC-4800(SD) can be interlocked with the production line.

UEC-4800TPA/E(SD) SPECIFICATIONS

POWER SUPPLY	AC100~240V ±10%
POWER FREQUENCY	50/60 Hz
NOISE PROTECTION	1000V 1μS (according to noise simulator)
INSULATION PROTECTION	DC500V over 10MΩ
AMBIENT TEMPERATURE	0~50°C (non-freezing)
AMBIENT HUMIDITY	Under 90%RH (no dew)
POWER CONSUMPTION	Approx. 30VA
WEIGHT	Approx. 3.6 kg
DIMENSIONS	265(D) x 222(W) x 120(H)
MAIN FUNCTIONS	Torque Monitoring / Control + Fastening Counter
PARAMETER SETUP	Manual Input on Front Touch Panel Personal Computer (with setup software)
DISPLAY	Torque Resolution ±2048 (12Bit A/D) 320 x 240 dot 25 characters x 15 lines
LED	COUNT Lamp : OK (Green) / NOK (Red) TORQUE Lamp : LOW (Yellow) / OK (Green) / HIGH (RED)
INPUT TERMINAL SIGNAL	Operation Voltage/Current : DC24V/aprox. 10mA 6 terminals (free format), VALVE
OUTPUT TERMINAL SIGNAL	Contact Capacity : AC:125V, 0.3A, DC:30V, 1A 6 terminals (free format), VALVE

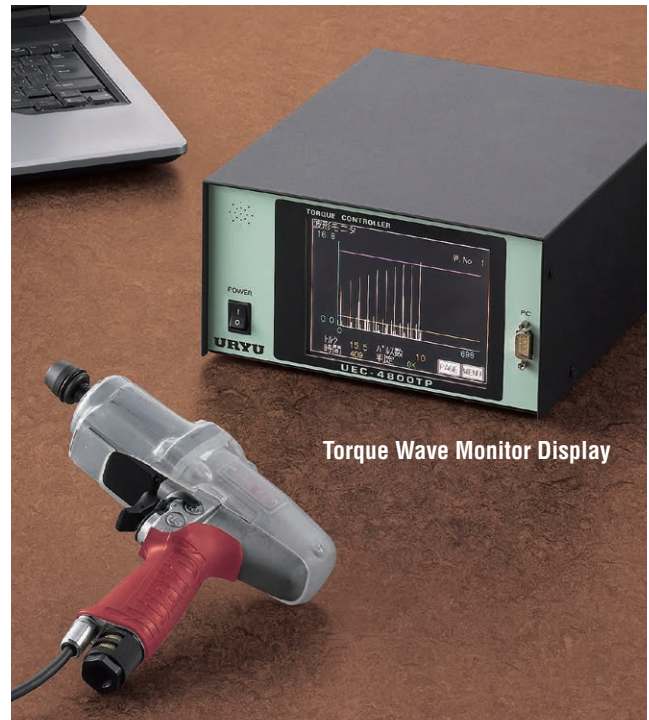
(Input Terminal Block)

Signal Allocations
COM:Common Terminal for the input terminals. (—)
IN 1~6:Input Terminals
IN COM:Common Terminal for the input terminals. (—)
OUT COM:Common Terminal for the output terminals.



(Output Terminal Block)

Signal Allocations
COM:Common Terminal for the output terminals.
OUT 1 ~ 5:Output Terminals
VALVE:Valve Output (0V)
VALVE COM:+24V
OUT 6:Output Terminal
OUT COM:Common Terminal for the output terminals.



Torque Wave Monitor Display

Torque Monitor Display



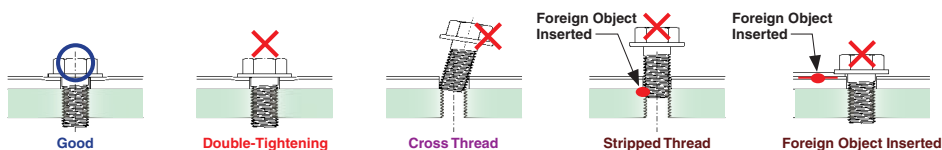
Our conventional UEC-4800 series have been superseded by UEC-4800(SD) which have the following new functions.

- 1) **miniSD card slot on the back panel**
Fastening data and wave can be saved in miniSD card. It is also possible to save and read setting values in miniSD card.
- 2) **Terminal on the rear side**
Below terminals are added.
1 x Input terminal
1 x Output terminal
2 x Input COM terminals
2 x Output COM terminals
- 3) **Valve Check**
Valve wiring check function is added. It checks the valve connection to the terminal and if you use ALPHA-MC fitted with the valve inside the tool, it checks the tool valve connection.
- 4) **Other differences**
The fastest PC communication speed becomes 115200 bps. from 38400 bps.
Speed of inputting and deleting memory data will be quicker.

SUPER "INTELEC" SYSTEM UAAMC TOOLS

Uryu UAAMC series are capable of angle monitoring in addition to the torque control/monitoring from UA-MC series. It enables you to get double-hit, cross-thread, and so forth by angle monitoring.

PISTOL TYPE



Double-Tightening:

Detectable as the torque increases, while the free run angle lacks.

- Free Run Angle NG

Cross Thread:

Detectable as the fastening angle gets too high

- Angle NG

Stripped Thread/Seized Thread:

Detectable as the torque does not increase and the fastening angle gets too high

- Angle NG

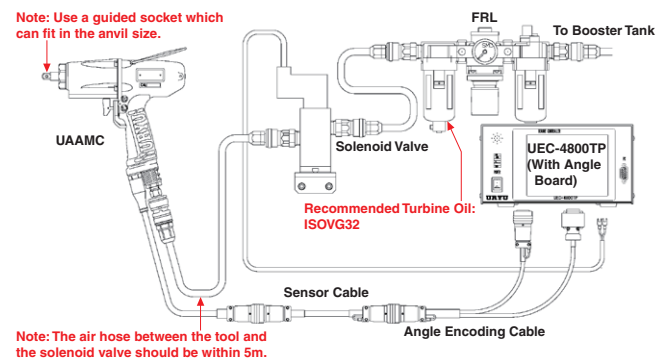
Foreign Object Inserted:

Detectable as the torque does not increase and the fastening angle gets too high

- Angle NG

The controller should have angle board and the UAAMC tool needs angle encoding cable to be used.

SYSTEM LAYOUT



SPECIFICATIONS

Recommended Air Pressure: 0.5MPa(72psi)-0.6MPa(85psi)

Model	Capacity (Nominal Bolt Size)		Torque Range				Free Speed (Approx.) rpm		Overall Length (about)		Weight less Socket or Bit (about)		From Center to Outside (about)		Sq. Drive or Hex. Size		Average Air Consumption	
			0.5MPa		0.6MPa													
	mm	in	Nm	ft-lbs	Nm	ft-lbs	0.5MPa	0.6MPa	mm	in	kg	lb	mm	in	mm	in	m³/min	ft³/min
UA400AMC	6	1/4	5-11	3.7-8.1	7-13	5.2-9.6	3300	3600	193	7 19/32	1.35	2.97	28.0	1 7/64	9.5	3/8	0.20	7.0
UA500AMC	6-8	1/4-5/16	9-20	6.6-14.8	11-25	8.1-18.4	4100	4250	193	7 19/32	1.35	2.97	28.0	1 7/64	9.5	3/8	0.25	8.8
UA600AMC	8	5/16	16-30	11.8-22.1	18-38	13.3-28.0	4900	5000	198.5	7 13/16	1.4	3.08	28.0	1 7/64	9.5	3/8	0.40	14.0
UA700AMC	8-10	5/16-3/8	25-40	18.4-29.5	30-50	22.1-36.9	5300	5700	207.5	8 11/64	1.5	3.3	28.5	1 1/8	9.5	3/8	0.45	15.8
UA800AMC	10	3/8	35-50	25.8-36.9	40-60	29.5-44.3	5600	6000	215.5	8 31/64	1.7	3.74	29.0	1 9/64	9.5	3/8	0.48	16.8
UA900AMC	10-12	3/8-1/2	35-65	25.8-47.9	40-80	29.5-59.0	5200	5500	232.5	9 5/32	2.2	4.84	30.0	1 3/16	12.7	1/2	0.53	18.6
UA100AMC	12	1/2	45-75	33.2-55.3	50-90	36.9-66.4	4900	5200	242.5	9 35/64	2.5	5.5	32.0	1 17/64	12.7	1/2	0.55	19.3
UA130AMC	14	4/7	70-110	51.6-81.1	85-130	62.7-95.9	4000	4500	263	10 23/64	3.3	7.26	38.0	1 1/2	12.7	1/2	0.73	25.6

Air Inlet size : NPT1/4" Air Hose size : 10mm×6.5mm×5m for UA400AMC and UA500AMC 12mm×8.0mm×5m for UA600AMC~UA100AMC 16mm×11.0mm×5m for UA130AMC

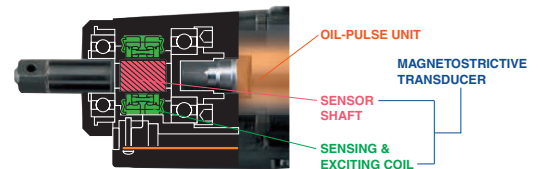
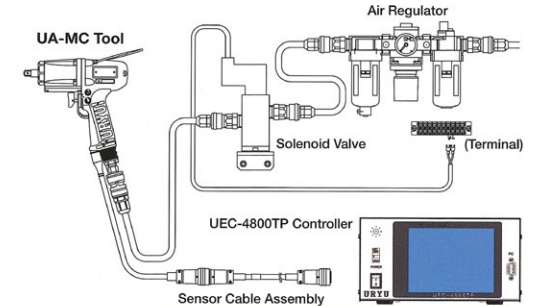
SUPER "INTELEC" SYSTEM UAMC TOOLS

This URYU SUPER INTELEC system performs control and monitoring of fastening torque, and eliminates time-consuming manual torque check for quality control and higher productivity. Conventional ULMC series have been superseded by this new UAMC series which have improved three performance advantages; accuracy, speed, and durability due to its auto-relief function.

PISTOL TYPE



SYSTEM LAYOUT



MAGNETOSTRICTIVE TRANSDUCER

Uryu's brushless Magnetostriuctive Torque Transducer consists of Anvil and a pair of sensor coils.

Without contacting to the Anvil, the sensor coil detects load given to the Anvil. (non-contact)

The grooves in the Anvil are provided at 45 degree angle in one region. When torque is applied to the Anvil, tensile stress appears on the region and magnet permeability increase. These permeability changes are detected, respectively transformed to the voltage change (proportional to applied torque) and converted to torque signals to control the tool.

SPECIFICATIONS (PISTOL TYPE)

Recommended Air Pressure: 0.5MPa(72psi)-0.6MPa(85psi)

Model	Capacity (Nominal Bolt Size)		Torque Range				Free Speed (Approx.) rpm		Overall Length (about)		Weight less Socket or Bit (about)		From Center to Outside (about)		Sq. Drive or Hex. Size		Average Air Consumption	
			0.5MPa		0.6MPa													
	mm	in	Nm	ft-lbs	Nm	ft-lbs	0.5MPa	0.6MPa	mm	in	kg	lb	mm	in	mm	in	m³/min	ft³/min
UA40MC	6	1/4	4.9-9.3	3.6-6.8	6.8-12.0	5.0-8.8	3300	3600	170	6 11/16	1.1	2.42	26	1 1/32	9.5	3/8	0.20	7.0
UA40DMC	6	1/4	4.9-9.3	3.6-6.8	6.8-12.0	5.0-8.8	3300	3600	170	6 11/16	1.1	2.42	26	1 1/32	6.35	1/4	0.20	7.0
UA50MC	6	1/4	11.9-22.5	8.8-16.6	16.6-29.0	12.2-21.4	4100	4250	170	6 11/16	1.1	2.42	26	1 1/32	9.5	3/8	0.25	8.8
UA50DMC	6	1/4	10.0-19.0	7.2-14.0	15.0-25.0	11.1-18.5	4100	4250	170	6 11/16	1.1	2.42	26	1 1/32	6.35	1/4	0.25	8.8
UA60MC	8	5/16	18.1-34.2	13.3-25.3	25.1-44.0	18.5-32.5	4900	5000	175	6 57/64	1.14	2.51	26	1 1/32	9.5	3/8	0.40	14.0
UA70MC	8-10	5/16-3/8	20.5-38.9	15.1-28.7	28.5-50.0	21.0-37.0	5300	5700	187	7 23/64	1.24	2.73	26	1 1/32	9.5	3/8	0.45	15.8
UA80MC	10	3/8-1/2	30.0-50.0	22.2-37.0	40.0-60.0	29.6-44.4	5700	6000	195	7 43/64	1.55	3.41	28	1 7/64	9.5	3/8	0.48	16.8
UA90MC	10-12	3/8-1/2	32.8-62.2	24.2-46.0	45.7-80.0	33.8-59.2	5200	5500	203	7 63/64	1.7	3.74	28	1 7/64	12.7	1/2	0.53	18.6
UA100MC	12	1/2	36.9-70.0	27.3-51.8	51.4-90.0	38.0-66.6	4900	5200	215	8 15/32	2.05	4.51	30	1 3/16	12.7	1/2	0.55	19.3
UA130MC	14	9/16	53.4-101.0	39.5-74.7	74.2-130.0	54.9-96.2	4000	4500	233	9 11/64	2.8	6.16	36	1 27/64	12.7	1/2	0.73	25.6

Air Inlet size : NPT1/4" Air Hose size : 10mm×6.5mm×5m for UA40MC~50MC 12mm×8.0mm×5m for UA60MC~100MC 16mm×11.0mm×5m for UA130MC

SPECIFICATIONS (STRAIGHT TYPE) OK / NOK LED indicator equipped.

Recommended Air Pressure: 0.5MPa(72psi)-0.6MPa(85psi)

Model	Capacity (Nominal Bolt Size)		Torque Range				Free Speed (Approx.) rpm		Overall Length (about)		Weight less Socket or Bit (about)		From Center to Outside (about)		Sq. Drive or Hex. Size		Average Air Consumption	
			0.5MPa		0.6MPa													
	mm	in	Nm	ft-lbs	Nm	ft-lbs	0.5MPa	0.6MPa	mm	in	kg	lb	mm	in	mm	in	m³/min	ft³/min
UA40SMC	6	1/4	5-11	3.7-8.1	7-13	5.2-9.6	3300	3600	246	9 11/16	1.22	2.68	26	1 1/32	9.5	3/8	0.20	7.0
UA40SDMC	6	1/4	4.5-9.5	3.3-7.0	5-12	3.7-8.9	3300	3600	246	9 11/16	1.22	2.68	26	1 1/32	6.35	1/4	0.20	7.0
UA50SMC	6-8	1/4-5/16	9-20	6.7-14.8	11-25	8.1-18.5	4100	4250	246	9 11/16	1.23	2.70	26	1 1/32	9.5	3/8	0.25	8.8
UA50SDMC	6-8	1/4-5/16	8-18	5.9-13.3	9-23	6.7-17.0	4100	4250	246	9 11/16	1.23	2.70	26	1 1/32	6.35	1/4	0.25	8.8
UA60SMC	8	5/16	16-30	11.8-22.2	18-38	13.3-28.1	4900	5000	252	9 61/64	1.30	2.86	26	1 1/32	9.5	3/8	0.40	14.0
UA60SDMC	8	5/16	14-27	10.4-20.0	16-34	11.8-25.2	4900	5000	252	9 61/64	1.30	2.86	26	1 1/32	6.35	1/4	0.40	14.0
UA70SMC	8-10	5/16-3/8	25-40	18.8-29.6	30-50	22.2-37.0	5300	5700	265	10 7/16	1.39	3.05	26	1 1/32	9.5	3/8	0.45	15.8

Air Inlet size : NPT1/4" Air Hose size : 10mm×6.5mm×5m for UA40SMC~50SMC 12mm×8.0mm×5m for UA60SMC and UA70SMC

SUPER "INTELEC" SYSTEM UECD-4800 SERIES DRIVER•CONTROLLER

We have achieved the cost efficiency by combining our multi-functional controller to control the tool with brushless Magnetostrictive transducer which can be adjusted to a variety of applications and our driver box which supplies power to our electric pulse tool UEP wrenches, allowing the users to select the tool which complies with the international standards for threaded applications and meet the users' requirements. It is Ethernet capable so that it can meet the demands of the times.

◆ UECD-4800TP series



UECD-4800TPA/E SPECIFICATIONS

POWER SUPPLY	UECD-4800TPA: AC 115V UECD-4800TPE: AC 230V
POWER FREQUENCY	50 / 60 Hz
NOISE PROTECTION	1000V 1μS (depending on a noise simulator)
INSULATION PROTECTION	DC500V over 10MΩ
AMBIENT TEMPERATURE	0 - 50℃
AMBIENT HUMIDITY	less than 90 % (non condensing)
POWER CONSUMPTION	Approx. 50 - 400VA
WEIGHT	Approx. 10 - 12 kg
DIMENSIONS	265 (D) x 222 (W) x 200 (H)
MAIN FUNCTIONS	Torque Monitor / Control Fastening Count Control
PARAMETER SETUP	Front Panel Personal Computer with setup software
DISPLAY	Torque Resolution ±2048 (12Bit A/D) 320 x 240 dot 25 characters x 15 lines for double bytes character
LED	Fastening counter: Green for OK / Red for NOK Torque Judgment: Yellow for LOW / Green for OK / Red for HIGH
INPUT TERMINAL SIGNAL	Operation voltage / current: DC24V / 10mA (approx.) 5 inputs programmable
OUTPUT TERMINAL SIGNAL	Contact Capacity: AC 125V / 0.3A DC 30V / 1A 5 outputs programmable, valve

Model	UEP Model	Weight (approx.)	Voltage	Rated Power
UECD-4800TPA/E-50	UEP-50MC	10kg (22.0lb)	115V/230V	4.2A
UECD-4800TPA/E-60	UEP-60MC	10kg (22.0lb)	115V/230V	5.0A
UECD-4800TPA/E-70	UEP-70MC/80MC	10kg (22.0lb)	115V/230V	5.6A
UECD-4800TPA/E-100	UEP-100MC	12kg (26.4lb)	115V/230V	9.7A

◆ UECD-4800 series



UECD-4800A/E SPECIFICATIONS

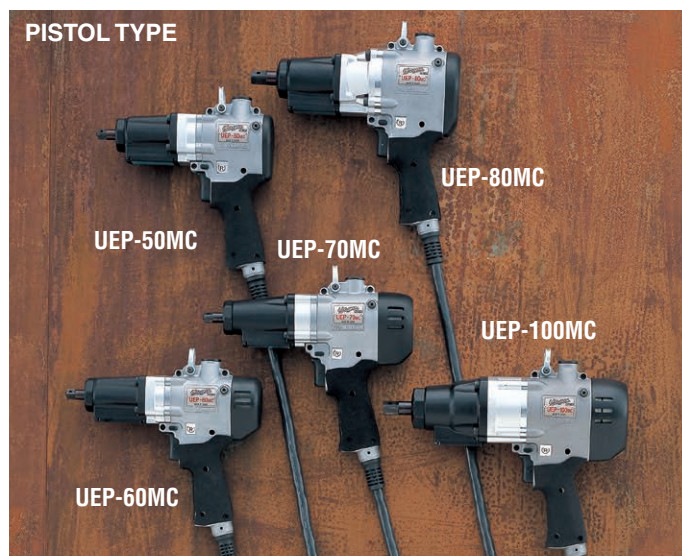
POWER SUPPLY	UECD-4800A: AC 115V UECD-4800E: AC 230V
POWER FREQUENCY	50 / 60 Hz
NOISE PROTECTION	1000V 1μS (depending on a noise simulator)
INSULATION PROTECTION	DC500V over 10MΩ
AMBIENT TEMPERATURE	0 - 50℃
AMBIENT HUMIDITY	less than 90 % (non condensing)
POWER CONSUMPTION	Approx. 50 - 400VA
WEIGHT	Approx. 10 - 12 kg
DIMENSIONS	265 (D) x 222 (W) x 200 (H)
MAIN FUNCTIONS	Torque Monitor / Control Fastening Count Control
PARAMETER SETUP	Front Panel Personal Computer with setup software
DISPLAY	Torque Resolution ±2048 (12Bit A/D) LCD (20 characters x 4 lines) Work No. / Fastening Counter / Fastening Time / Blow Number 1 Digit Numeric Display: Work No. 4 Digit Numeric Display: Torque Reading
LED	Fastening counter: Green for OK / Red for NOK Torque Judgment: Yellow for LOW / Green for OK / Red for HIGH
INPUT TERMINAL SIGNAL	Operation voltage / current: DC24V / 10mA (approx.) 5 inputs programmable
OUTPUT TERMINAL SIGNAL	Contact Capacity: AC 125V / 0.3A DC 30V / 1A 5 outputs programmable, valve

Model	UEP Model	Weight (approx.)	Voltage	Rated Power
UECD-4800A/E-50	UEP-50MC	10kg (22.0lb)	115V/230V	4.2A
UECD-4800A/E-60	UEP-60MC	10kg (22.0lb)	115V/230V	5.0A
UECD-4800A/E-70	UEP-70MC/80MC	10kg (22.0lb)	115V/230V	5.6A
UECD-4800A/E-100	UEP-100MC	12kg (26.4lb)	115V/230V	9.7A

Refer to the UEC-4800TP(SD) and UEC-4800(SD) for features and functions of controller.

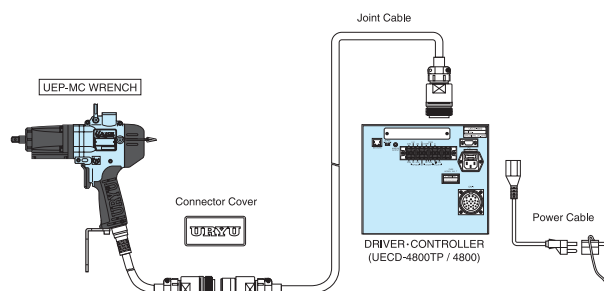
SUPER "INTELEC" SYSTEM ELECTRIC TOOLS

PISTOL TYPE



Function of UEP-MC tools

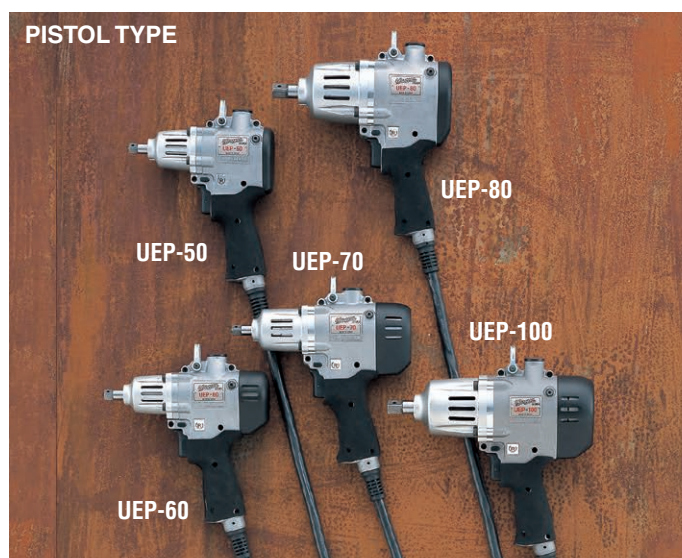
- The Uryu unique non-contact and Magnetostrictive transducer incorporated into UEP-MC tools provides you with the tightening and fastening counter monitoring controlled by high-accurate torque control/mechanism, being connected to our multi-functional controller UECD-4800 series (combination unit of UEC-4800 and UEPD driver box).



SPECIFICATIONS (UEP-MC TORQUE CONTROL)

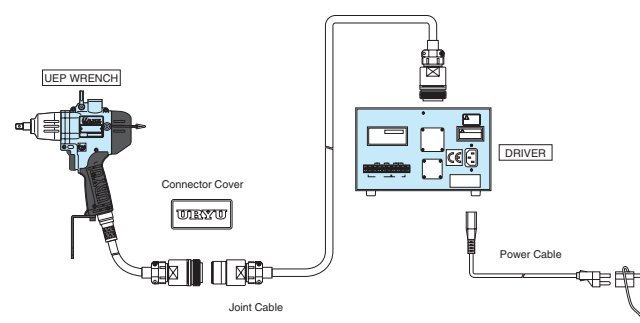
Model	Capacity (Nominal Bolt Size)		Torque Range		Free Speed (Approx.)	Overall Length (about)		Weight less Socket or Bit (about)		From Center to Outside (about)		Sq. Drive or Hex. Size	
	mm	in	Nm	ft-lbs	rpm	mm	in	kg	lb	mm	in	mm	in
UEP-50MC	5	No. 10	5-10	3.7-7.4	2000	200.0	7 7/8	1.83	4.03	25	63/64	9.5	3/8
UEP-50DMC	5	No. 10	5-10	3.7-7.4	2000	199.5	7 55/64	1.83	4.03	25	63/64	6.35	1/4
UEP-60MC	6	1/4	10-25	7.4-18.5	2000	222.5	8 49/64	2.13	4.69	25	63/64	9.5	3/8
UEP-60DMC	6	1/4	10-25	7.4-18.5	2000	222.0	8 47/64	2.13	4.69	25	63/64	6.35	1/4
UEP-70MC	8	5/16	25-40	18.5-29.6	2000	237.5	9 11/32	2.38	5.24	31	1 7/32	9.5	3/8
UEP-80MC	8-10	5/16-3/8	30-60	22.2-44.4	2000	237.5	9 11/32	3.01	6.62	36.5	1 7/16	12.7	1/2
UEP-100MC	10-12	3/8-1/2	60-120	44.4-88.8	2000	276.0	10 55/64	4.16	9.15	36.5	1 7/16	12.7	1/2

PISTOL TYPE



Function of UEP tools

- UEP tools provide you with an accurate timer control after the fastener is seated.
- UEP tools provide you with blow number control.
- UEP tools provide you with the fastening counter function after being connected to UTM-1500 series.

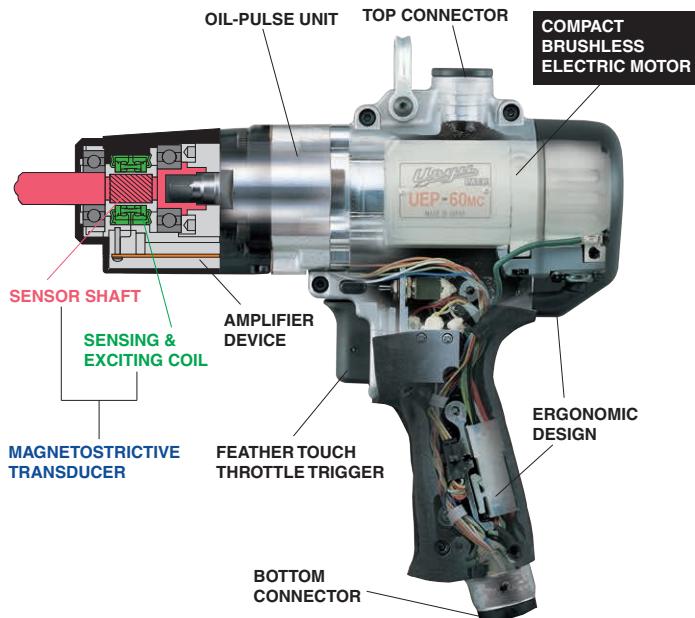


SPECIFICATIONS (UEP TIME CONTROL)

Model	Capacity (Nominal Bolt Size)		Torque Range		Free Speed (Approx.)	Overall Length (about)		Weight less Socket or Bit (about)		From Center to Outside (about)		Sq. Drive or Hex. Size	
	mm	in	Nm	ft-lbs	rpm	mm	in	kg	lb	mm	in	mm	in
UEP-50	5	No. 10	5-10	3.7-7.4	2000	165.5	6 33/64	1.43	3.15	25	63/64	9.5	3/8
UEP-50D	5	No. 10	5-10	3.7-7.4	2000	170.5	6 23/32	1.43	3.15	25	63/64	6.35	1/4
UEP-60	6	1/4	10-25	7.4-18.5	2000	188.0	7 13/32	1.76	3.87	25	63/64	9.5	3/8
UEP-60D	6	1/4	10-25	7.4-18.5	2000	193.0	7 19/32	1.76	3.87	25	63/64	6.35	1/4
UEP-70	8	5/16	25-40	18.5-29.6	2000	203.5	8 1/64	2.2	4.84	31	1 7/32	9.5	3/8
UEP-80	8-10	5/16-3/8	30-60	22.2-44.4	2000	202.0	7 61/64	2.73	6.01	36.5	1 7/16	12.7	1/2
UEP-100	10-12	3/8-1/2	60-120	44.4-88.8	2000	233.5	9 3/16	3.66	8.05	36.5	1 7/16	12.7	1/2

SUPER "INTELEC" SYSTEM ELECTRIC TOOLS

"UEP WRENCH" is a combination tool of the unique hydraulic pulse unit and the DC brushless motor utilized as a driving source taking environmental problem into consideration and displays "GOOD" or "NG" on LED by connecting with UEPD Driver. UEP-MC WRENCH is additionally incorporated the Magnetostrictive transducer designed to precisely measure dynamic torque of Oil-Pulse Tool and displays "Torque Value" and "Fastening Count-Down" by connecting with UEC-4800 Controller through UEPD Driver. With the more amazing features than typical Oil-Pulse Tool, UEP Electric Oil-Pulse Wrenches are ideal for continuous heavy production as the Ultimate fastening tools employing ergonomic design (low noise, low vibration, low torque reaction) for minimum operator fatigue, high-efficient and high-accurate operation.



Features

- Power Supply:** UEP tool is driven by commercial electricity. This helps you build an assembly line easily and adjust it flexibly to the layout change.
- Light Weight:** The housing is made from aluminum base alloy and designed to be light and rugged, based on the cultivated experience in pneumatic tool.
- Motor:** The DC brushless motor incorporated into UEP tool produces less noise and vibration and does not require the change of brush, which helps you save running cost. The built-in servo mechanism enables the smooth start and high torque output and achieves the low level of noise and reaction because of no reduction gear built in.
- Pulse Unit:** The UEP tool provides you with the consistent tightening, based on Uryu know-how acquired from the pneumatic oil-pulse tool development.
- Safety:** The intelligence of UEP tool stops operation immediately to protect the operator from the failure including overloaded operation, short circuit, and broken wire, which minimizes the possible influence over operator and shop floor.

Model	Driver / Controller Model	Weight (approx.)	Voltage	Rated Power
UEP-50MC	UECD-4800TPA/E-50	10kg (22.0lb)	115V/230V	4.2A
UEP-60MC	UECD-4800TPA/E-60	10kg (22.0lb)	115V/230V	5.0A
UEP-70/80MC	UECD-4800TPA/E-70	10kg (22.0lb)	115V/230V	5.6A
UEP-100MC	UECD-4800TPA/E-100	12kg (26.4lb)	115V/230V	9.7A
UEP-50MC	UECD-4800A/E-50	10kg (22.0lb)	115V/230V	4.2A
UEP-60MC	UECD-4800A/E-60	10kg (22.0lb)	115V/230V	5.0A
UEP-70MC/80MC	UECD-4800A/E-70	10kg (22.0lb)	115V/230V	5.6A
UEP-100MC	UECD-4800A/E-100	12kg (26.4lb)	115V/230V	9.7A

Model	Driver Box Model	Dimensions (W x D x H)	Weight (approx.)	Frequency	Voltage	Rated Power
UEP-50 series	UEPD-51A/E	222(4 45/64) x 265(10 7/16) x 143(5 5/8)	8.0kg(17.6lb)	50Hz/60Hz	115V/230V	4.2A
UEP-60 series	UEPD-61A/E	222(4 45/64) x 265(10 7/16) x 143(5 5/8)	8.0kg(17.6lb)	50Hz/60Hz	115V/230V	5.0A
UEP-70/80 series	UEPD-71A/E	222(4 45/64) x 265(10 7/16) x 143(5 5/8)	8.0kg(17.6lb)	50Hz/60Hz	115V/230V	5.6A
UEP-100 series	UEPD-101A/E	222(4 45/64) x 265(10 7/16) x 158(6 7/32)	9.5kg(20.9lb)	50Hz/60Hz	115V/230V	9.7A

Operation Temperature : 0°C - 50°C Operation Humidity : Less than 85%RH (No Dew)
UEP-MC tools can run in conjunction with this driver box and UEC-4800 series.