

# UECP SERIES

The UECP series Controller becomes one unit combined driver unit to drive UDP-MC series electric oil pulse tools and multi-function controller of UEC-4810 to control a transducerized tool.

BOLT & NUT SETTERS



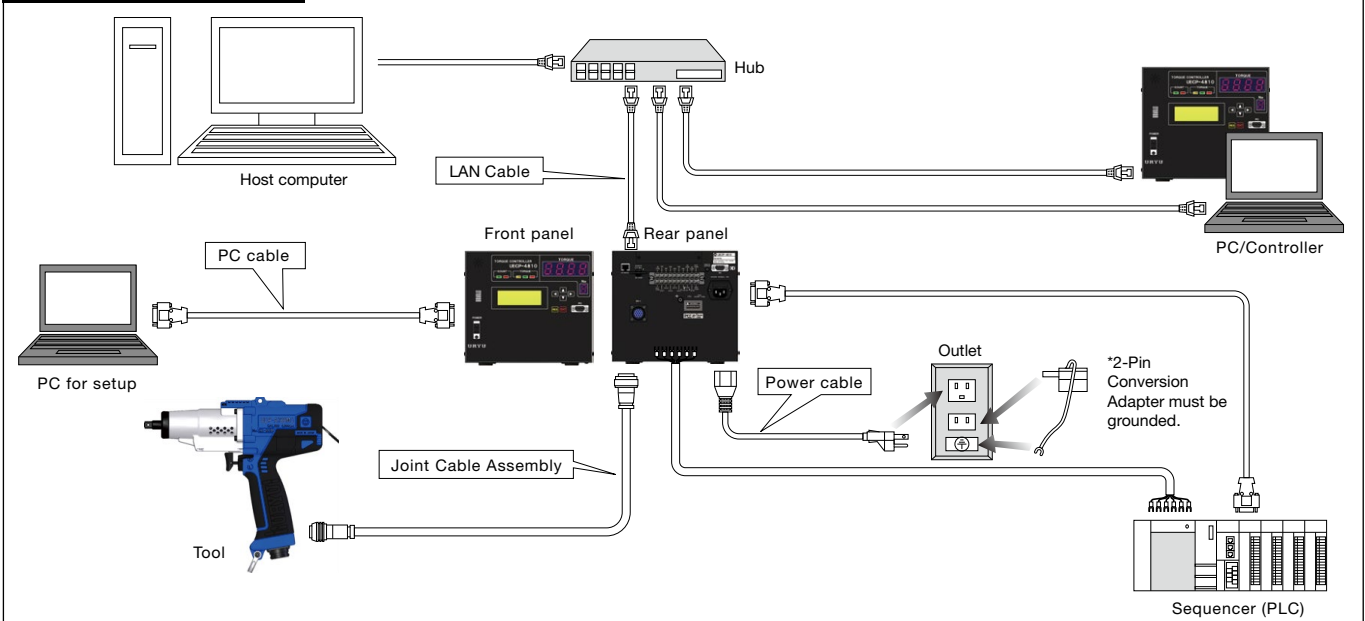
\*Joint Cable Assembly is necessary to connect tool with controller  
 For UDP-A600LMC · A700MC · A100MC 910-807-0: 5M / 910-808-0: 10M / 910-809-0: 15M / 910-810-0: 20M  
 For UDP-A120MC 910-567-0: 5M / 910-568-0: 10M / 910-569-0: 15M / 910-625-0: 20M

## UECP SERIES SPECIFICATIONS

POWER SUPPLY	UECP-4810A: AC115V UECP-4810E: AC230V
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	90% RH or less (no dew)
WEIGHT	11.30 kg
DIMENSIONS	265 (D) × 222 (W) × 200 (H)
MAIN FUNCTIONS	Torque control, Torque monitor Fastener number count
PARAMETER SETUP	Manual input on front LCD panel By PC (with setup software)
DISPLAY	Torque resolution ±2048 (12 bit by A/D use)
	LCD type LCD ( 20 letters × 4 lines )
	Work number, Bolt count number, Tightening time and Pulse blow number 1-digit Digital Display (DPM) Work number displayed 4-digit Digital Display (DPM) Torque reading displayed
LED	Total Lamp (for Count Judgment) : OK (green) / NOK (red)
	Torque Lamp (for Torque Judgment) : LOW (yellow) / OK (green) / HIGH (red)
INPUT TERMINAL SIGNAL	Operation Voltage/Current : DC24V / about 10mA 6 terminals available (programmable) Note: Contact input necessary
OUTPUT TERMINAL SIGNAL	Contact Capacity : DC30V, 1A 6 terminals available (programmable), VALVE
OPTION	Setting PC Cable (Straight) Part Number : 910-219-0
CODE (A/E)	81862/81872

UECP-4810 | UDP-A600LMC · A700MC · A100MC · A120MC Series

## UECP Series System Layout



# UDP-MC SERIES

**Exquisite Range of Torque.  
Fastening with high efficiency & high accuracy.  
New Function: Double hitting error detection function available.  
External start signal available for multi-purpose usage.**



UDP-A700MC



UDP-A600LMC

UDP-A100MC  
UDP-A120MC

Top Load Type

UDP-A600LMC (TL)

## FEATURES

- URYU's unique non-contact Magnetostrictive transducer incorporated.
- The UDP tool is driven by commercial electricity. This helps you build an assembly line easily and adjust it flexibly to the layout change.
- High Power and High efficiency adopted by IPM motor. (except for A100MC/A120MC)
- Cooling fan is activated automatically when pulling the throttle trigger, which contributes to heat reduction and increase number of fastening.
- The intelligence of UDP-MC 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.

## [FUNCTIONS]

- Motor speed/current is programmable.
  - Motor current can be set in 4 steps
  - Motor rotational speed can be set in 100 min<sup>-1</sup> increments (by the 2-step fastening, torque spike at bolt seating is inhibited, and make it possible to cover the wider torque range.)
- The functions of various fastening error detections and fastener number count down assure your operations.
- Makes setup or changeover of fastening torque and fastening number count.
- Tool's maintenance is possible by counting both total cycle numbers (how many fasteners) and/or total pulse numbers.
- Input/Output check and error messages can be checked from your PC screen or the front panel of UECP Series with buzzer sounding.
- Can set up and monitor various control values and setting values either on the front panel or on your PC screen.
- Ethernet(TCP/IP) capable. Upload and receipt of the setting values, upload of the fastening result/waveform data through PC software.

## Electric Oil-Pulse Tool UDP-MC Series

Model	Capacity (Nominal Bolt Size)		Torque Range		Free Speed (Approx.) min <sup>-1</sup>	Overall Length (about)		Weight less Socket or Bit (about)		From Center to Outside (about)		Sq. Drive or Hex. Size		Code	
	mm	in	Nm	ft-lbs		mm	in	kg	lb	mm	in	mm	in	Standard	TL
UDP-A600LMC, (TL)	5-6	No.10-1/4	4-20	3.0-14.8	4800	214	8 27/64	1.53	3.37	29.5	1 5/32	9.5	3/8	07452	07459
UDP-A700MC, (TL)	8-12	5/16-1/2	10-50	7.4-37.0	4800	242	9 33/64	1.78	3.92	29.5	1 5/32	9.5	3/8	07332	07339
UDP-A100MC, (TL)	10-12	3/8-1/2	45-100	33.3-74.0	4800	248	9 49/64	2.85	6.27	34.5	1 23/64	12.7	1/2	07382	07389
UDP-A120MC, (TL)	10-12	3/8-1/2	55-120	40.5-88.4	4800	248	9 49/64	2.85	6.27	34.5	1 23/64	12.7	1/2	07402	07409

Model name with "TL" is top load type.

\*Torque Range is a guideline value. Please make tool selection appropriately in accordance with an actual application.