

ECU SERIES

Conversion for Fluorescent and Halogen Lamps



General Specifications

- High lumen output
- 1 or 3 hours emergency duration
- LED charging indicator
- Overcharge and deep discharge protection for batteries
- Suitable for:
 - 4-pin fluorescent lamps (all); both conventional and electronic ballast operated [ECU4PA, ECU4PAF; ECU4PU; ECU4PST, ECU4PD, ECU4PLP and ECUHNC] with high temperature Ni-Cd batteries (easy connect, reverse polarity protected cable connector set)
 - 2-pin compact fluorescent lamps (up to 26W), conventional ballast operated [ECUC] with sealed lead acid batteries
 - 12V halogen lamps; both conventional and electronic transformer operated [ECUH] with sealed lead acid batteries, [ECU HNC] with with high temperature Ni-Cd batteries
- Certified to EN61347-1 and EN61347-2-7 by TSE

Ordering Details

ECU4PA and ECU4PAF Series

For 4-pin linear, compact or circular fluorescent lamps, c/w Ni-Cd battery block, compatible with switch-start or electronic ballast

Dimensions (Height x Length x Width) - Module : 35x169x41mm
 Battery: [(3,6V/1,7Ah): 02,3x13cm]; [(4,8V/1,7Ah): 02,3x17cm]; [(6,0V/1,7Ah): 02,3x22cm]
 Battery: [(3,6V/4,5Ah): 03,3x18cm]; [(4,8V/4,5Ah): 03,3x24cm]; [(6,0V/4,5Ah): 03,3x30cm]

ECONOMICAL model (ECU4PA with PC case)

Product Code	Lamp Type	Duration	Battery
ECU4P11A-1H ECU4P11A-3H	TC S/E (5-7-9-11W) TC D/E (10-13-18-26W) TC T/E (13-18-26W) TC L (18-24W) T5 (8-14-24W); T8 (18W)	1 hour 3 hours	3,6V-1,7Ah 3,6V-4,5Ah
ECU4P12A-1H ECU4P12A-3H	T8 (36W)	1 hour 3 hours	3,6V-1,7Ah 3,6V-4,5Ah
ECU4P21A-1H ECU4P21A-3H	TCT/E (32W) T8 (58W) T5 (21-28-54W) T9 C (22-32-40W)	1 hour 3 hours	4,8V-1,7Ah 4,8V-4,5Ah
ECU4P31A-1H ECU4P31A-3H	TC L (36W)	1 hour 3 hours	4,8V-1,7Ah 4,8V-4,5Ah
ECU4P41A-1H ECU4P41A-3H	T5 (39W)	1 hour 3 hours	4,8V-1,7Ah 4,8V-4,5Ah
ECU4P51A-1H ECU4P51A-3H	T5 (35-49-80W)	1 hour 3 hours	6,0V-1,7Ah 6,0V-4,5Ah
ECU4P52A-1H ECU4P52A-3H	T5 C (40-55W)	1 hour 3 hour	6,0V-1,7Ah 6,0V-4,5Ah
ECU4P61A-1H ECU4P61A-3H	TC L (40-55W)	1 hour 3 hours	6,0V-1,7Ah 6,0V-4,5Ah
ECU4P71A-1H ECU4P71A-3H	TC T/E (42W)	1 hour 3 hours	6,0V-1,7Ah 6,0V-4,5Ah

EMC Certified model (ECU4PAF with PC case)

Product Code	Lamp Type	Duration	Battery
ECU4P11AF-1H ECU4P11AF-3H	TC S/E (5-7-9-11W) TC D/E (10-13-18-26W) TC T/E (13-18-26W) TC L (18-24W) T5 (8-14-24W); T8 (18W)	1 hour 3 hours	3,6V-1,7Ah 3,6V-4,5Ah
ECU4P12A-1H ECU4P12A-3H	T8 (36W)	1 hour 3 hours	3,6V-1,7Ah 3,6V-4,5Ah
ECU4P21AF-1H ECU4P21AF-3H	TCT/E (32W) T8 (58W) T5 (21-28-54W) T9 C (22-32-40W)	1 hour 3 hours	4,8V-1,7Ah 4,8V-4,5Ah
ECU4P31AF-1H ECU4P31AF-3H	TC L (36W)	1 hour 3 hours	4,8V-1,7Ah 4,8V-4,5Ah
ECU4P41AF-1H ECU4P41AF-3H	T5 (39W)	1 hour 3 hours	4,8V-1,7Ah 4,8V-4,5Ah
ECU4P52AF-1H ECU4P52AF-3H	T5 C (40-55W)	1 hour 3 hour	6,0V-1,7Ah 6,0V-4,5Ah
ECU4P53AF-1H ECU4P53AF-3H	T5 (35W) [pre-heating]	1 hour 3 hours	6,0V-1,7Ah 6,0V-4,5Ah
ECU4P54AF-1H ECU4P54AF-3H	T5 (49W) [pre-heating]	1 hour 3 hours	6,0V-1,7Ah 6,0V-4,5Ah
ECU4P55AF-1H ECU4P55AF-3H	T5 (80W) [pre-heating]	1 hour 3 hours	6,0V-1,7Ah 6,0V-4,5Ah
ECU4P62AF-1H ECU4P62AF-3H	TC L (40W) [pre-heating]	1 hour 3 hours	6,0V-1,7Ah 6,0V-4,5Ah
ECU4P63AF-1H ECU4P63AF-3H	TC L (55W) [pre-heating]	1 hour 3 hours	6,0V-1,7Ah 6,0V-4,5Ah
ECU4P71AF-1H ECU4P71AF-3H	TC T/E (42W)	1 hour 3 hours	6,0V-1,7Ah 6,0V-4,5Ah

ECU4PST Series

For 4-pin linear, compact or circular fluorescent lamps, c/w Ni-Cd battery block, compatible with switch-start or electronic ballast

Dimensions (Height x Length x Width) - Module: 30x260x42mm
 Battery: [(3,6V/1,7Ah): 02,3x13cm]; [(4,8V/1,7Ah): 02,3x17cm]; [(6,0V/1,7Ah): 02,3x22cm]
 Battery: [(3,6V/4,5Ah): 03,3x18cm]; [(4,8V/4,5Ah): 03,3x24cm]; [(6,0V/4,5Ah): 03,3x30cm]

SELF-TEST model (ECU4PST with iron sheet case)

Product Code	Lamp Type	Duration	Battery
ECU4P11ST-1H ECU4P11ST-3H	TC S/E (5-7-9-11W) TC D/E (10-13-18-26W) TC T/E (13-18-26W) TC L (18-24W) T5 (8-14-24W) T8 (18W)	1 hour 3 hours	3,6V-1,7Ah 3,6V-4,5Ah
ECU4P12ST-1H ECU4P12ST-3H	T8 (36W)	1 hour 3 hours	4,8V-1,7Ah 4,8V-4,5Ah
ECU4P21ST-1H ECU4P21ST-3H	TCT/E (32W) T8 (58W) T5 (21-28-54W) T9 C (22-32-40W)	1 hour 3 hours	4,8V-1,7Ah 4,8V-4,5Ah
ECU4P31ST-1H ECU4P31ST-3H	TC L (36W)	1 hour 3 hours	4,8V-1,7Ah 4,8V-4,5Ah
ECU4P41ST-1H ECU4P41ST-3H	T5 (39W)	1 hour 3 hours	4,8V-1,7Ah 4,8V-4,5Ah
ECU4P51ST-1H ECU4P51ST-3H	T5 (35-49-80W)	1 hour 3 hours	6,0V-1,7Ah 6,0V-4,5Ah
ECU4P52ST-1H ECU4P52ST-3H	T5 C (40-55W)	1 hour 3 hours	6,0V-1,7Ah 6,0V-4,5Ah
ECU4P61ST-1H ECU4P61ST-3H	TC L (40-55W)	1 hour 3 hours	6,0V-1,7Ah 6,0V-4,5Ah
ECU4P71ST-1H ECU4P71ST-3H	TC T/E (42W)	1 hour 3 hours	6,0V-1,7Ah 6,0V-4,5Ah
ECUREL	Optional "Relay Output" for ECU4PST models just for the connection of the kit to the address module of a lighting automation system		

ECU4PB Series

For 4-pin linear, compact or circular fluorescent lamps, c/w Ni-Cd battery block, compatible with switch-start or electronic ballast with ballast control relay output. Dimensions (Height x Length x Width) - Module : 35x169x41mm
 Batteries: [(3,6V/1,7Ah): Ø2,3x13cm]; [(4,8V/1,7Ah): Ø2,3x17cm]; [(6,0V/1,7Ah): Ø2,3x22cm]
 Battery: [(3,6V/4,5Ah): Ø3,3x18cm]; [(4,8V/4,5Ah): Ø3,3x24cm]; [(6,0V/4,5Ah): Ø3,3x30cm]

ECONOMICAL model with ballast control relay output

Product Code	Lamp Type	Duration	Battery
ECU4P11B-1H ECU4P11B-3H	TC S/E (5-7-9-11W) TC D/E (10-13-18-26W) TCT/E (13-18-26W) TCL (18-24W) T5 (8-14-24W); T8 (18W)	1 hour 3 hours	3,6V-1,7Ah 3,6V-4,5Ah
ECU4P12B-1H ECU4P12B-3H	T8 (36W)	1 hour 3 hours	3,6V-1,7Ah 3,6V-4,5Ah
ECU4P21B-1H ECU4P21B-3H	TCT/E (32W) T8 (58W) T5 (21-28-54W) T9 C (22-32-40W)	1 hour 3 hours	4,8V-1,7Ah 4,8V-4,5Ah
ECU4P31B-1H ECU4P31B-3H	TCL (36W)	1 hour 3 hours	4,8V-1,7Ah 4,8V-4,5Ah
ECU4P41B-1H ECU4P41B-3H	T5 (39W)	1 hour 3 hours	4,8V-1,7Ah 4,8V-4,5Ah
ECU4P51B-1H ECU4P51B-3H	T5 (35-49-80W)	1 hour 3 hours	6,0V-1,7Ah 6,0V-4,5Ah
ECU4P52B-1H ECU4P52B-3H	T5 C (40-55W)	1 hour 3 hours	6,0V-1,7Ah 6,0V-4,5Ah
ECU4P61B-1H ECU4P61B-3H	TCL (40-55W)	1 hour 3 hours	6,0V-1,7Ah 6,0V-4,5Ah
ECU4P71B-1H ECU4P71B-3H	TCT/E (42W)	1 hour 3 hours	6,0V-1,7Ah 6,0V-4,5Ah

ECU4PU Series, 5 Pole Switching

For 4-pin linear, compact or circular fluorescent lamps, c/w Ni-Cd battery block, compatible with switch-start or electronic ballast, **5 pole switching**
 Dimensions (Height x Length x Width) - Module : 35x169x41mm
 Battery: [(3,6V/1,7Ah): Ø2,3x13cm]; [(4,8V/1,7Ah): Ø2,3x17cm]; [(6,0V/1,7Ah): Ø2,3x22cm]
 Battery: [(3,6V/4,5Ah): Ø3,3x18cm]; [(4,8V/4,5Ah): Ø3,3x24cm]; [(6,0V/4,5Ah): Ø3,3x30cm]

5-Pole Switching model (ECU4PU with PC case)

Product Code	Lamp Type	Duration	Battery
ECU4P11U-1H ECU4P11U-3H	TCS/E (5-7-9-11W) TC D/E (10-13-18-26W) TCT/E (13-18-26W) TCL (18-24W) T5 (8-14-24W); T8 (18W)	1 hour 3 hours	3,6V-1,7Ah 3,6V-4,5Ah
ECU4P12U-1H ECU4P12U-3H	T8 (36W)	1 hour 3 hours	3,6V-1,7Ah 3,6V-4,5Ah
ECU4P21U-1H ECU4P21U-3H	TCT/E (32W) T8 (58W) T5 (21-28-54W) T9 C (22-32-40W)	1 hour 3 hours	4,8V-1,7Ah 4,8V-4,5Ah
ECU4P31U-1H ECU4P31U-3H	TCL (36W)	1 hour 3 hours	4,8V-1,7Ah 4,8V-4,5Ah
ECU4P41U-1H ECU4P41U-3H	T5 (39W)	1 hour 3 hours	4,8V-1,7Ah 4,8V-4,5Ah
ECU4P51U-1H ECU4P51U-3H	T5 (35-49-80W)	1 hour 3 hours	6,0V-1,7Ah 6,0V-4,5Ah
ECU4P52U-1H ECU4P52U-3H	T5 C (40-55W)	1 hour 3 hours	6,0V-1,7Ah 6,0V-4,5Ah
ECU4P61U-1H ECU4P61U-3H	TCL (40-55W)	1 hour 3 hours	6,0V-1,7Ah 6,0V-4,5Ah
ECU4P71U-1H ECU4P71U-3H	TCT/E (42W)	1 hour 3 hours	6,0V-1,7Ah 6,0V-4,5Ah

ECUH Series (Iron sheet case)

For 12Volt halogen lamps, c/w lead acid battery, **nominal emergency light output**, compatible with both conventional and electronic transformer.
 Dimensions (Height x Length x Width) - Module: 34x217x44mm
 Battery: [(12V/7Ah): 7x15x9cm/2,17kg]

Product Code	Lamp Type	Duration	Battery
ECU120H ECU320H	12V / 20W halogen with sealed laead acid battery	1 hour 3 hours	1x(12V-7Ah) 1x(12V-7Ah)
ECU150H ECU350H	12V / 50W halogen with sealed laea acid battery (3h model on a mounting plate)	1 hour 3 hours	1x(12V-7Ah) 2x(12V-7Ah)
ECU1100H ECU3100H	12V / up to 100W halogen with sealed lead acid battery (both models on a mounting plate)	1 hour 3 hours	2x(12V-7Ah) 5x(12V-7Ah)

ECU4PD Series

For 4-pin linear, compact or circular fluorescent lamps, c/w Ni-Cd battery block, compatible with switch-start or electronic ballast, compatible to **DALI** (as automatic Self-Test function if no DALI connection).
 Dimensions (Height x Length x Width) - Module 11D, 21D [polycarbonate]: 30x150x44mm;
 Module 31D [polycarbonate]: 30x150x44mm;
 Modules 41D, 51D, 61D [aluminium]: 21x250x30mm;
 Modules 71D, 81D, 91D [aluminium]: 35x210x42mm
 Battery: [(3,6V/4,5Ah): Ø3,3x18cm]; [(4,8V/4,5Ah): Ø3,3x24cm]; [(6,0V/4,5Ah): Ø3,3x30cm]
Important Notice: All the DALI type units are supplied as 3 hours backup duration; the 7,2V battery is supplied as 2 sets of 3,6V packs.

DALI model (ECU4PD with PC / aluminium case)

Product Code	Lamp Type	Duration	Battery
ECU4P11D-3H [AS3C/D1/M3]	TC S/E (5-7-9-11W) TC D/E (10-13W) TCL (18W) T5 (8-14W)		3,6V-4,5Ah
ECU4P21D-3H [AS4C/D1/M3]	TC S/E (5-7-9-11W) TC D/E (10-13-18-26W) TC T/E (13-18-26W) TCL (18-24-36W) T5 (14-21W) T5 C (22W) T8 (18-36W)		4,8V-4,5Ah
ECU4P31D-3H [ASR665/D1/M3]	T8 (18-36-58W)	3 hours	4,8V-4,5Ah
ECU4P41D-3H [AST514/D1/M3]	T5 (14-21-28W)		6,0V-4,5Ah
ECU4P51D-3H [AST515/D1/M3]	T5 (14-21-28-35W)		7,2V-4,5Ah
ECU4P61D-3H [AST516/D1/M3]	T5 (24-39-49-54W) T5 C (22-40-55W)		7,2V-4,5Ah
ECU4P71D-3H [AST781/D1/M3]	T5 (80W)		7,2V-4,5Ah
ECU4P81D-3H [AST642/D1/M3]	TCT/E (13-18-26-32-42W)		7,2V-4,5Ah
ECU4P91D-3H [AST655/D1/M3]	TCL (55W)		7,2V-4,5Ah

ECUHNC Series (iron sheet case)

For 12Volt halogen lamps, c/w lead acid battery, **low emergency light output**, compatible with both conventional and electronic transformer.
 Dimensions (Height x Length x Width) - Module: 33x215x42mm
 Battery: [(4,8V/1,7Ah): Ø2,3x17cm]; [(4,8V/4,5Ah): Ø3,3x24cm]

Product Code	Lamp Type	Duration	Battery
ECU120HNC ECU320HNC	12V / 20W halogen with Ni-Cd battery	1 hour 3 hours	2x(4,8V-1,7Ah) 2x(4,8V-4,5Ah)
ECU150HNC ECU350HNC	12V / 50W halogen with Ni-Cd battery	1 hour 3 hours	2x(4,8V-1,7Ah) 2x(4,8V-4,5Ah)

ECUC Series (iron sheet case)

For 2-pin compact fluorescent lamps, c/w lead acid battery; compatible with switch-start ballast circuits.
 Dimensions (mm) - Module (HxWxD): 33x215x42
 Batteries [(12V/4Ah): 70x90x100/1,6kg]; [(12V/7Ah): 70x150x90/2,17kg]

Product Code	Lamp Type	Duration	Battery
ECU126C ECU326C	TC S (5-7-9-11W) TC D (10-13-18-26W) TCT/E (13-18-26W)	1 hour 3 hour	1x(12V-4Ah) 1x(12V-7Ah)

Technical Specifications

- System Mode : Non Maintained; 1 or 3 hours
 - Input Voltage : 230V AC, 50/60Hz
 - Battery : High temperature type Ni-Cd (ECU4PA, ECU4PB, ECU4PAF, ECU4PST, ECU4PU; ECU4PD and ECUHNC) Sealed lead acid battery for ECUC and ECUH
 - Charging : Constant current charger for Ni-Cd batteries; constant voltage and limited current charger for sealed lead acid batteries models
 - Insulation Class : Class II for PC case types; Class I for metal case types
 - Temperature : 0 - 45°C types
 - Color : White
 - Dimensions : See above charts
 - Weight (max) :
- | | | |
|------------------------------|-----------|-----------|
| ECU4PXXA/B/AF/U-1H : 0,600kg | ECU126C | : 2,800kg |
| ECU4PXXA/B/AF/U-3H : 1,020kg | ECU326C | : 3,000kg |
| ECU4PXXST-1H : 0,690kg | ECU1X0 | : 3,000kg |
| ECU4PXXST-3H : 1,180kg | ECU3X0 | : 7,500kg |
| ECU4PXXD-1H : 0,660kg | ECU1X0HNC | : 0,900kg |
| ECU4PXXD-3H : 1,110kg | ECU3X0HNC | : 1,900kg |