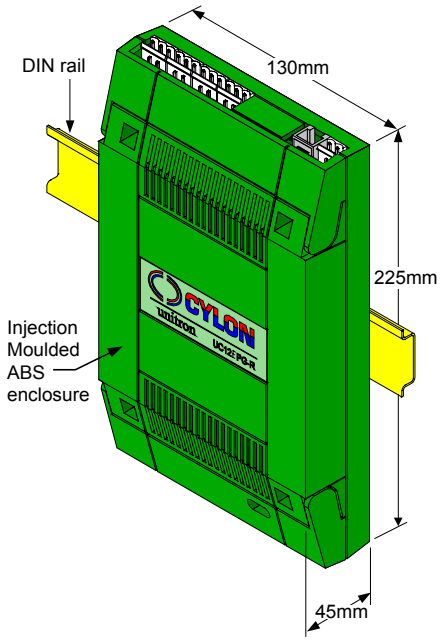
UC12EPG-R Universal Programmable Controller with Relay output

DESCRIPTION

The UC12EPG-R is a programmable controller with 8 inputs and 4 outputs.



MECHANICAL

Size	225 x 130 x 45 mm (8.86 x 5.12 x 1.78")
Enclosure	Injection moulded ABS
Mounting	DIN rail

ENVIRONMENTAL

Note: This equipment is intended for field installation within another enclosure.

Ambient Temperature	0° - 50°C (32°-122°F) ambient.
Ambient Humidity	0% - 90% RH non-condensing
EMC Immunity	EN 50082-1
EMC Emission	EN 55011 Class B

WIRING

Termination	PCB mounted plug terminal connections.
Conductor Area	Max: AWG 12 (3.09 mm^2) Min: AWG 22 (0.355 mm^2)

Note: Use Copper or Copper Clad Aluminium conductors only.

ELECTRICAL

Supply Requirements	24 V AC +/- 20% 50/60 Hz
Power Rating	10 VA
Fuse Rating	2 A anti-surge (250 V AC 2 - AT)

PROCESSOR

Type	Motorola 68HC11
Clock Speed	8 MHz
Operating System Memory	128K
User Programmable Memory	128K RAM Battery backed for 2 years minimum
Real-Time Clock	Battery backed for 2 years minimum

INPUTS/OUTPUTS

Note: Screened cable is recommended for all input connections.

8 Universal Inputs	Active voltage input 0-10 V @ 134 K Passive input recommended sensor: PT1000 Resolution: 12 bits (with exponential filter applied to the input block in the controller's strategy.) **Note:** '10k option' controllers use 10k3A1 sensors only Active current input: 0-20 mA @ 120 Ω (screened cable) Digital Volt Free Contact: Pulse up to 12 Hz, minimum pulse width 42ms.
4 Universal Outputs	Jumper selectable: 0 – 10 V DC 10mA max or 24 V AC Relay, 2 A continuous / 15 A max inrush.

COMMUNICATIONS

Local RS232 TTL port	@ 1200, 9600, 19200 or 38400 Baud
Network RS485 port	@ 1200, 9600, 19200 or 38400 Baud
Keypad port	@ 9600 Baud, RJ11 socket
Modem	Modem connection supported through RS232 service port

INTERFACE

Software	WN3000 software suite and Unitron Palmtop program
Remote Keypad	UCKRA420 Serial Text Keypad connected via RJ11 port Maximum cable length 50m

SOFTWARE FEATURES

Maximum number of strategy blocks	255
Maximum number of Datalog Modules	16
Maximum Datalog Module capacity	192 entries per Datalog
Maximum Controller Address	32

Note: The maximum controller address is 8 for UC12EPG-R controllers with firmware versions of 5.5.0 or earlier.

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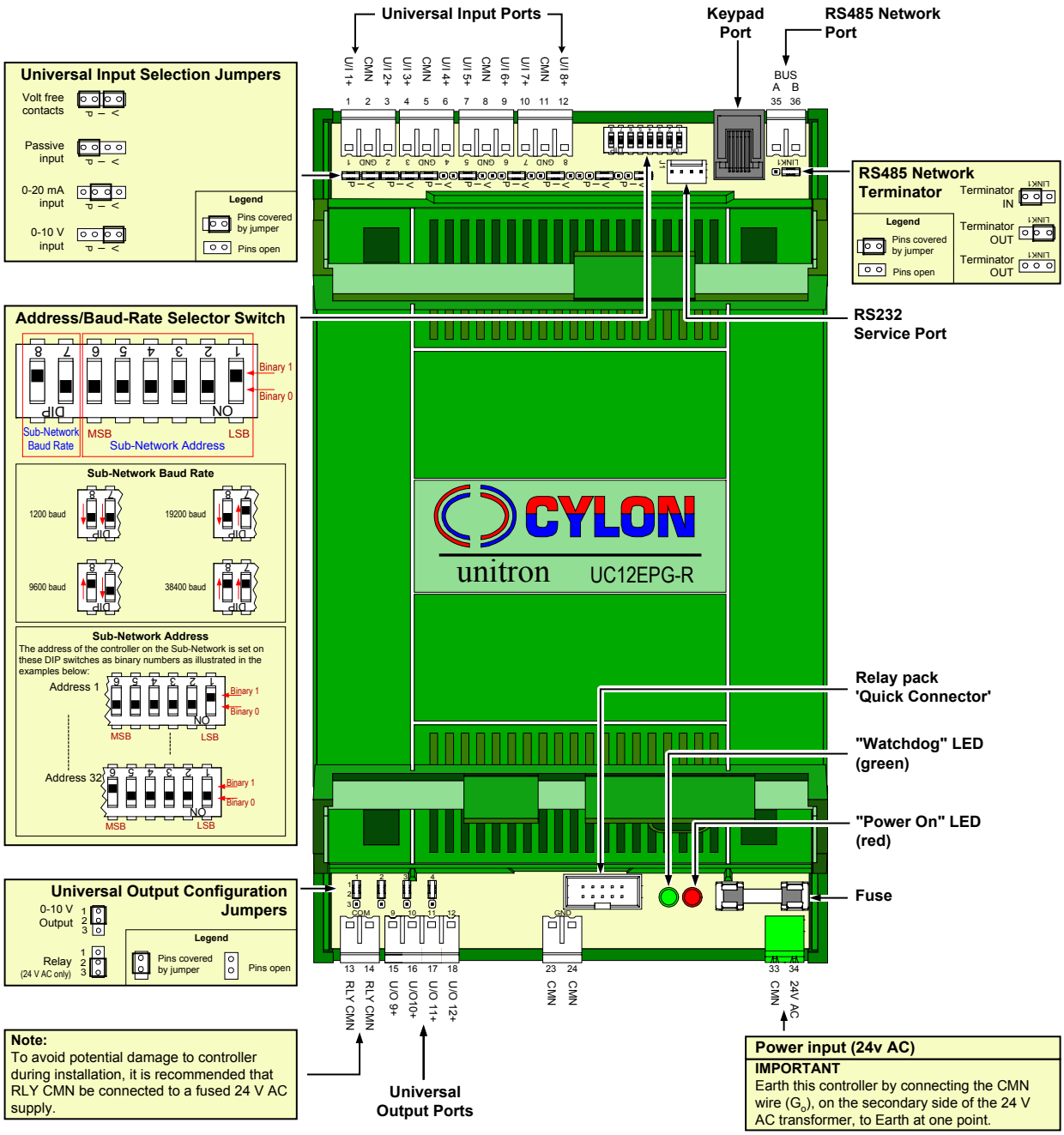
CE Due to Cylon's policy of continuous improvements these specifications may be upgraded without notice.



Note:

Outputs which are configured as relay outputs must use terminals 13 and 14 (RLY CMN) as their common point.

Digital Inputs and Outputs configured as Universal Outputs must use terminals 23 and 24 (CMN) as their common point.

This is because inside the UC controller, terminals 13 and 14 (RLY CMN) are connected to the relays only, whereas terminals 23 and 24 are connected to the Power Input's CMN line on pin 33 as shown in this diagram: