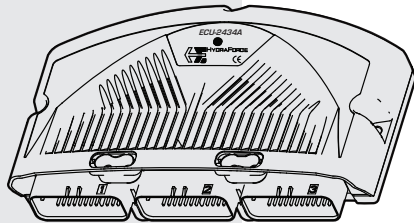


ECU-2434A Multifunction Programmable Controller

European
Commission
(EC)



FEATURES

- CE Certified, complies with WEEE, European Community Directive 2002/96/EC/for waste electrical and electronic equipment, RoHS, European Community Directive 2011/65/EU restricting hazardous substances.
- Reliable operation in real-world temperature conditions from -40 to 85 °C (-40 to 185 °F).
- Robust, light, leakproof, chemical-resistant aluminum and thermoplastic enclosure
- Three-point anchorage mounts firmly even on irregular surfaces
- Inputs and outputs are protected against shorts.
- Internal diagnostic capability to detect overvoltage and overtemperature conditions
- Signal LED for quick status check and fault detection
- Temperature monitoring
- Two CAN ports

DESCRIPTION

The **ECU-2434A** electronic controller is a powerful multi-function programmable controller designed to withstand the real-world environmental demands of the off-highway mobile market. With a 16/32-bit CPU, two CAN ports, 65 I/O pins with 24 outputs and 34 inputs, it can be configured in multiple ways. This controller is programmable with CoDeSys 2.3 which you can download from the HydraForce Electronics Portal at no charge. It has a light, leakproof, chemical-resistant aluminum and thermoplastic enclosure, indicator LED, Gore-Tex breather and three AMP35 connectors.

RATINGS

Processor: 16/32 bit CPU, 100 MHz

Memory: Flash memory: Total 1600 kB

RAM memory: 138 kB (112 kB for PLCopen application variables)

Non-volatile memory: 8 kB

PLCopen application size: Up to 768 kB

Power: Nominal supply voltage: 12/24 Vdc (8.5 to 33 Vdc)

Idle power consumption: 1.5 W (+24 Vdc, no external load)

Undervoltage reset: 7.5 V

Overvoltage protection: Typical 33 to 70 Vdc (transient 123 V)

Ref. voltage outputs: +5 V

Diagnostics: Signal LED (green/red)

Supply voltage

Unit temperature

Ref. voltage monitoring

Internal voltage monitoring

Software cycle time

Error log

Protection function: Overvoltage protection, short-circuit protection for outputs

Programming: CoDeSys 2.3

Software installation: Download via CAN

Protection class: IP67

Size/outer dimensions: 225 mm x 148 mm x 50 mm (8.85 in x 5.84 in x 1.97 in)

Weight: 0.93 kg (2.05 lb)

Case material: Aluminum / plastic (PBT 20% glass filled)

Operating and storage temperature: -40 to 85 °C (-40 to 185 °C)

Connectors: 3 x AMP35 (X1 gray, X2 black, X3 blue)

Communication interfaces: 2 x CAN 2.0B

I/O pins: 68 total, 2 x +5 V ref pins, 20 GND pins

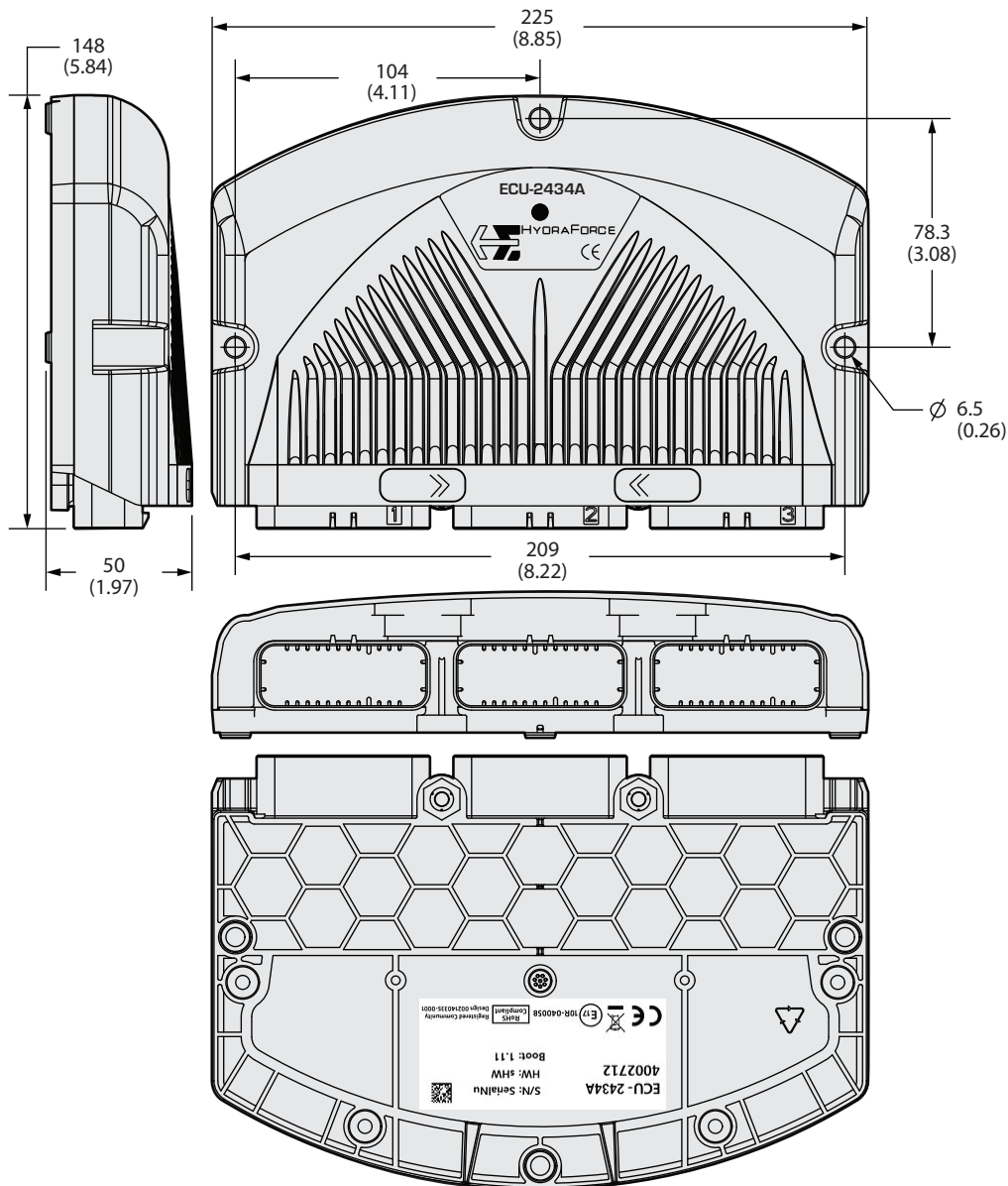
INPUTS/OUTPUTS

Max amount	Info	DI	AI	FB	PI	DO		PWM
						PNP (sourcing)	NPN (sinking)	
16	3 A	X				X		X
4	4 A	X				X		X
4	4 A	X					X	
2	0 to 37 V	X	X					
14	0 to 5 V / 0 to 22 mA	X	X					
4	0 to 5 V, multiple pull-up resistor sizes	X	X					
10	0 to 2 A			X				
12	pull-up/pull-down	X			X			
1	threshold 2.5 V	X			X			
1	threshold 1.25 V	X			X			

ECU-2434A Multifunction Programmable Controller

DIMENSIONS

mm (in)



TO ORDER

Controller: Model **ECU-2434A** Part No. 4002712

Mating connectors: Gray X1 Part No. 4000381; Black X2 Part No. 4002746; Blue X3 Part No. 4002747

Backshell: Part No. 4000382

Socket contacts (gold): Part No. 4000364

Cavity sealing plug: Part No. 4000365

Programming software: CoDeSys available from HydraForce Electronics Portal as free download.