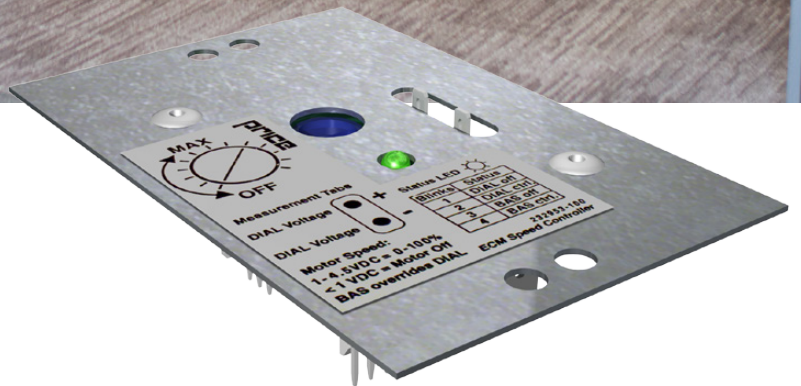


ECM

PRICE STANDARD ECM SPEED CONTROLLER

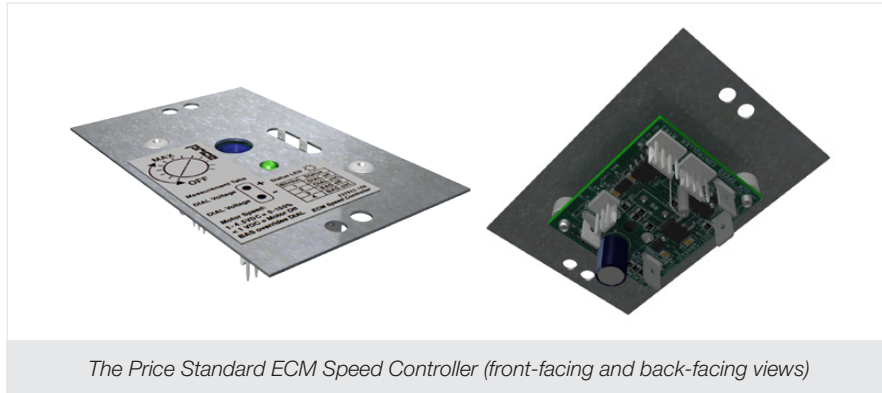


Typical System Configuration

The Price ECM speed controller is designed to interface with a high-efficiency Electronically Commutated Motor. This low voltage speed controller offers either full manual dial control, automatic control (modulation signal from a terminal unit controller) or Building Automation System (BAS) control of the Electronically Commutated Motor. Switching between the modes is easy: just apply the BAS signal and the controller will automatically switch over from manual (dial) mode to BAS mode.

FEATURES

- + Low supply voltage (24VAC)
- + Dual outputs to control up to two Electronically Commutated Motors (both motors will receive the same signal)
- + Manual adjustment dial and front-facing voltage taps for voltmeter hookup eliminate the need to open the electrical enclosure
- + BAS 2 to 10 VDC input for variable speed remote control
- + Front-facing Diagnostic LED light communicates control mode



The Price Standard ECM Speed Controller (front-facing and back-facing views)

Product Highlights

BAS Interface & Modes

The BAS interface accepts an industry standard 2-10 VDC signal from a controller or computer to vary the speed of the Electronically Commutated Motor, allowing remote control/shutdown of the ECM motor based on air requirements and/or occupancy modes.

Do not switch 120/208/240/277VAC power to turn Electronically Commutated Motor on and off. Instead, adjust the 24VAC signal or BAS signal to turn the motor on and off. The motor has large capacitors that charge quickly on mains power up. Switching on several motors frequently could reduce building power quality and is not recommended.

Turning off 24 VAC power to the ECM speed controller will turn off the motor.

- 0-1 VDC (at Dial Taps) Manual Mode (dial adjust) - OFF
- 1-5 VDC (at Dial Taps) Manual Mode (dial adjust) - CONTROL 0-100%
- 0-1 VDC (at BAS Taps) Manual Mode (see above)
- 1-2 VDC (at BAS Taps) BAS Mode - OFF (recommended 1.5 VDC to turn off motor)
- 2-10 VDC (at BAS Taps) BAS Mode - CONTROL 0-100%

Diagnostic LED

The Diagnostic LED communicates the current mode of the ECM speed controller by blinking out the sequential status code, followed by a pause.

- 1 Blink: Manual Control Mode Off
- 2 Blinks: Manual Control Mode On
- 3 Blinks: BAS Off Mode
- 4 Blinks: BAS Control Mode

Specifications

Subject to change without notice

Power	24 VAC ±10% at 50/60Hz (2VA)
Operating Conditions	32°F to 122°F (0°C to 50°C) 0%-95% R.H. Non-Condensing
Storage Conditions	-22°F to 122°F (-30°C to 50°C) 0%-95% R.H. Non-Condensing
Processor	8-Bit Standard Flash Microcontroller
Inputs	2 Analog (Dial Input and BAS Input)
Outputs	3 Digital (GO Signal to ECM, Vspd PWM Signal at 80.0 Hz, Diagnostic LED)
Connections	¼ in. (6.35 mm) Spade Terminals – recommend 18-22 AWG Copper Wire
Dimensions	2.5 in. x 3.8 in. (64 mm x 96 mm) – includes mounting plate
Shipping Weight	0.1 lbs (46 g)

price | CONTROLS

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