# **USC**UNIVERSAL SPEED CONTROLLER





### **USC**Universal Speed Controller

## **Typical System Configuration**

Price's Universal Speed Controller (USC) provides variable speed control of permanent split capacitor (PSC) motors used in Price terminal units. The USC is a solid state device with an integral heat sink/mounting plate, making it an easy-to-install, long-life component.

#### **FEATURES**

- + Available in four configurations:
  - 115 VAC 8 amps maximum load
  - 115 VAC 15 amps maximum load (large finned heat sink)
  - 277 VAC 8 amps maximum load (same size as 115 VAC 8 amps model, but with a different label)
  - 277 VAC 10 amps maximum load (large finned heat sink)
- + Two-wire connection (no polarity) connected in series with one of the motor lines (typically Hot)
- + Factory calibrated for the terminal unit it is installed on



The USC is factory calibrated specifically for the required unit (shown here with the Price FDV)

### **Product Highlights**

#### **Minimum Adjust Dial**

Factory calibration of the USC involves setting the minimum adjust dial to a specific voltage. The user adjust dial can then adjust the motor speed between minimum and maximum speed.

Price recommends not resetting the minimum adjust dial, since running the motor at lower speed may reduce its life due to overheating the windings and stressing the shaft bearings (low RPM prevents bearing lubrication).

#### **Voltage Output**

A True-RMS voltage meter is required to measure the voltage output from the speed controller. A non-True-RMS voltmeter will give inaccurate readings due to the shape of the AC waveform coming from the electronic speed controller.





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