

Support 877-351-4702

Model No. FSC-1 Digital EC Motor Control



This manual covers the following product(s):

FSC-1 Fan Speed Control

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Overview

The FSC-1 is a digital EC motor control. The control has a simple five button interface with a four digit LED display. All programmable parameters can be accessed through the user menu with the five button interface. There are two ECM connectors with modulating outputs, one RPM feedback, and one 0-10V DC input. The FSC-1 is compatible with both Telco Green and Nidec motors. User parameters are stored in non-volatile memory and are retained even during a power outage. The FSC-1 is powered by 24V AC.

Normal Operation

FSC Application

Every ten seconds the FSC-1 display will toggle between the current percent of run speed and the current RPMs. The percent of run speed can be changed by using the UPA and DNV keys followed by the END key to save your changes. If the remote function is enabled the speed is controlled through

the 0-10V input. 0V being 0% and 10V being 100%, unless overridden by the low speed and high speed limits. You can access programming mode by holding the enter key for three seconds.

0-10 Application

In the 0-10V application you are provided a programmable 0-10V reference. The display shows the selected voltage. The voltage is easily changed using the **W** and **DNV** keys followed by the **END** key to save your changes.



Programming

Please refer to the "FSC-1 Menu Map" on page 3 for editing parameters within program mode. To enter program mode hold the END key for three seconds until "LSPD" is displayed. Use the UPD and DND keys to navigate to the desired menu parameter shown in column 1 of the menu map on page 3. To edit a menu parameter press the ED key once on the desired parameter. The current value will be displayed in column 2 of the menu map on page 3. Also use the **UPA** and **DNN** keys to change values within a parameter. The parameter will blink until the user presses ENT to save the changes or the ENT key to cancel without saving. If a key is not pressed for fifteen seconds, the control will return to normal operating mode. Different parameters are as follows:

- 1. "APPS": Prompts the user to select which application to utilize.
- 2. "SP": Set the speed or the "Setpoint" of the motor.
- 3. "LSPD": Sets the lowest possible speed the motor will operate at. If the DVD button is pressed one more time passed the "LSPD" limit, the control will turn off.
- 4. "hSPD": Sets the highest possible speed the motor can operate at.
- 5. "tyP": Sets the type of motor the control is configured for. The FSC-1 is compatible with Telco Green and Nidec motors.
- 6. "re": Allows the user to enable or disable the use of an external remote control.
- 7. "ver": Allows the user to view the current version software number.

Alarms

Error messages on the FSC-1 will scroll across the display with a detailed message. This will help users to resolve issues faster. Possible errors are as follows:

1. "oFF"- The FSC-1 is not receiving RPM feedback.

To resolve an issue, refer to "Installation" on page 3 for proper wiring connections.



(Red indicates default parameter)

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Installation



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