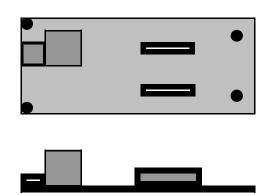
Telecom EE-PSC Control Module

Data Interface with I2C Communications Bus Remote Control Your Power Supply



SAVE TIME & MONEY
FAST INSTALLATIONS
STOP FIELD SERVICE
EASY RETROFITS
PROVEN RELIABILITY
& MUCH MORE!



Size L 4.5 x W 2.1 x H 1.75 inches

Options Include:

Power Supply Inhibit: TTL signal Power Supply Aux: TTL signal AC Power Good: TTL signal DC Power Good: TTL signal Fault Signal: TTL signal Margin Signal 1: TTL signal Margin Signal 2: TTL signal

Selectable pull-up resistors TTL (5Vdc 10K)

Fan Tack 1: RPM +/- 10% Fan Tack 2: RPM +/- 10%

Selectable Dividers Resistors (Analog Input)
Current Share: Voltage input / read back
Primary Voltage Output: Voltage input / read back
Aux Voltage Output: Voltage input / read back
Alarm Set Point Upper: Primary Voltage
Alarm Set Point Lower: Primary Voltage
Alarm Set Point Upper: AUX Voltage
Alarm Set Point Lower: AUX Voltage
Air Temperature Monitor –25C to 100C +/- 2C
Eeprom (256 x 8) serial number, R/W 1 Million
I2C Input / Output (standard 5Vdc)
Seven Address location / module

External DC Power 5Vdc Isolated Internal Power 90-264 Vac Isolated / Optional Unit comes with connectors for hook-up High Noise Immunity Standard Telecom Configuration

Standard Telecom Configuration Sink Current TTL (5 ma) Source Current TTL (0.5 ma) Over Temperature Alarm (O.S.) I2C bus speed 100K Maximum Voltage Monitor +/- 5 % Operation Range -25C to +60C

Humidity 80% @ 25C

Selectable addressing of module

7 Module Control / I2C Bus Connection

Operation:

The EE-PSC controls most high end power supplies by just hooking up control signals from the power supply to the unit. This allows your power supply to be controlled remotely by a digital data I2C bus controller, from a remote location. Testing, temperature, voltages, signals and alarm set-points. No need to do a field visit to see if the power supply is working. The EE-PSC can be configured for different addresses from just one I2C data bus. You can program a serial number into the each unit. There is no guess work. The EE-PSC follows all standard I2C commands and protocol. You can use either an external 5 volts supplied from another power supply to power the module or you can get an optional 90-264 volt AC supply with the EE-PSC. Power supply monitor voltage range is 3.3–48 +/- volts primary output . AUX monitor voltage + 5 Vdc. Plus a one year warranty.

Suggested price: \$150.00

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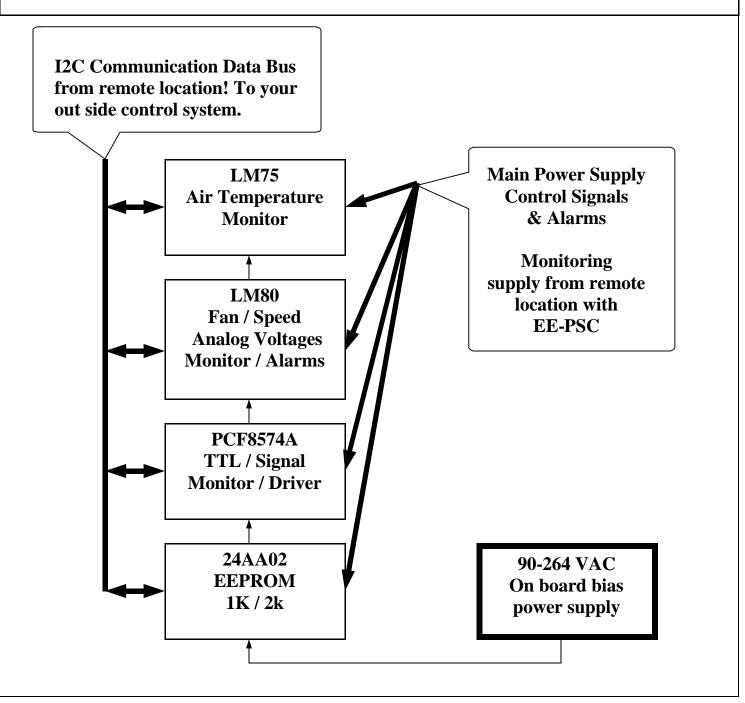
3143 NW 41st STREET
LAUDERDALE LAKES, FLORIDA 33309-4934 U.S.A.
PHONE / FAX / V-MAIL 954-485-0177
E-MAIL, SALES@EXEC-ENG.COM
INTERNET ADDRESS, HTTP://www.EXEC-ENG.COM/

Last Update: 10-30-2001 pre production

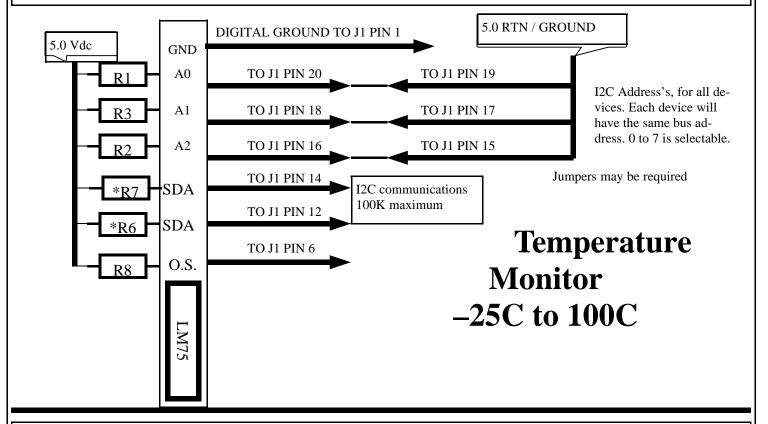
Now that you have found the power supply you want to use, you will find that it has no digital communications. That is where the EE-PSC can help in your design. This unit will supply 99% of all the communications you will need to any standard power supply with command signals (TTL). We have also added a temperature monitor for the power supply, voltage monitoring of the aux voltage and main voltage out. There are TTL monitors for the DC power good signals and AC power good signals as well as Alarm output signals. You can even test set-point alarms out of the power supply. If you need to reset your power supply you can do that also. We have even supplied an EEPROM for you to put a serial number into, so you know what power supply is in what location. You are in complete control of how your power supply reacts. The EE-PSC comes with two 20 pin connectors for signals inputs and outputs. Plus a two pin AC connector for 90-264 VAC power.

Software control of the EE-PSC follows all standard I2C instruction of each IC manufacture. Please read the following pages on correct connection of all signals and pull-up resistors.

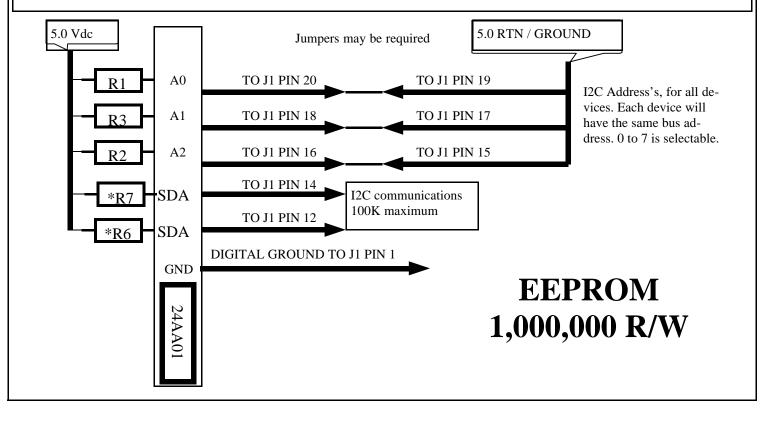
I2C communications information should be gotten from our web site for each device type. <u>All digital communication is done through the I2C bus.</u>



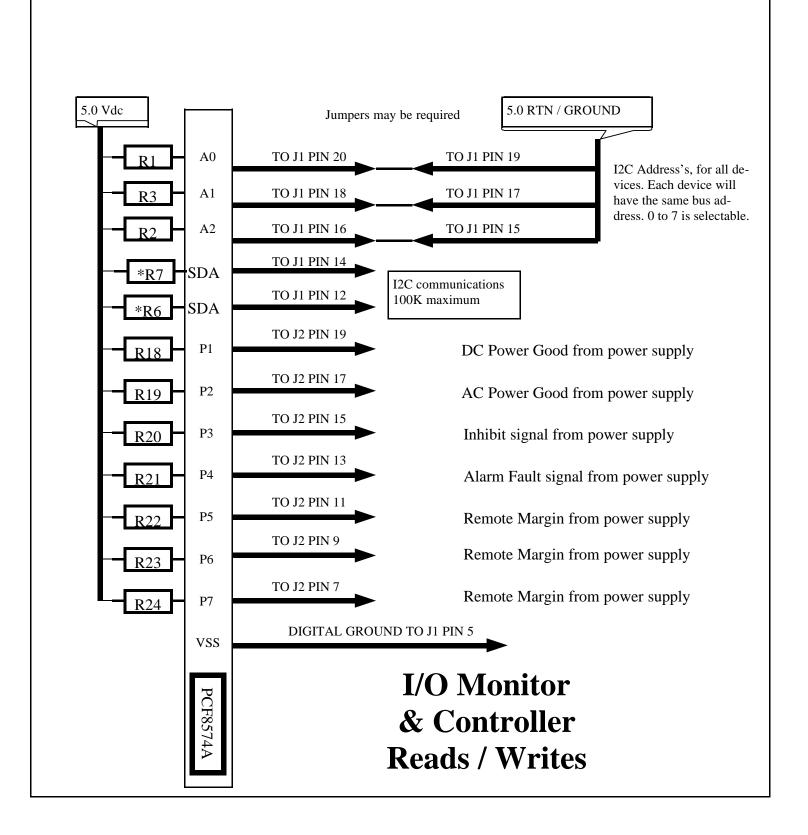
The LM75 is an I2C communication IC that monitors the temperature of the air around it. You have the ability to set temperature alarm set points or just monitor the air temperature. All resistors shown are pull-up. Any resistor shown with a "*" is not installed in the standard configuration. Consult factory for modifications. Please see the IC's manufactures specifications for correct protocol in communication.



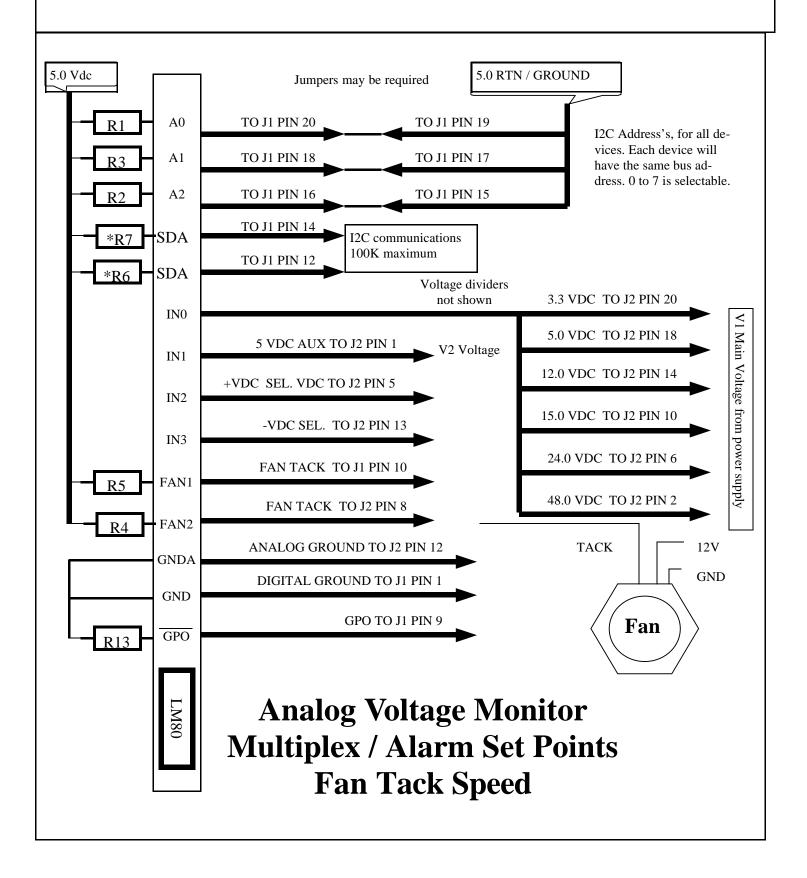
The 24AA01 is an I2C communication IC that holds a data serial number (EEPROM). You have the ability to put in a serial number for each power supply used or erase it and reprogram it. All resistors shown are pull-up. Any resistor shown with a "*" is not installed in the standard configuration. Consult factory for modifications. Please see the IC's manufactures specifications for correct protocol in communication.



The PCF8574A is an I2C communication IC that monitors the digital signals. You have the ability to set or read a digital bit high or low. All resistors shown are pull-up. Any resistor shown with a "*" is not installed in the standard configuration. Consult factory for modifications. All signals to and from this circuit are for stand TTL operation. Please see the IC's manufactures specifications for correct protocol in communication.



The LM80 is an I2C communication IC that monitors the analog signals. You have the ability to set high and low alarm points as well as measure fan tack frequency. All resistors shown are pull-up. Any resistor shown with a "*" is not installed in the standard configuration. Consult factory for modifications. Please see the IC's manufactures specifications for correct protocol in communication. The EE-PSC has been designed for most standard voltages that a power supply may generate. Each pin show the function or voltage that can be applied to it. You should never exceed that voltage. If you wish to use IN2 or IN3 call factory for configuration.



The CONNECTORS to I2C communication is a follows. You have the ability to set all the features of the EE-PSC. See the figures below for correct pin-out of connectors. Input 90-264 Vac, power Connector Receptacle AMP/TYCO P.N. 1-87456-6 for EE-PSC, this is op-Receptacle Pins. P.N. 87756-7 for 24 ga wire. tional for some cards. Screw type terminal. 20 16 14 12 10 **T**2 19 17 15 13 11 5 3 20 16 14 12 10 6 **EE-PSC** 17 19 15 13 11 5 **EE-PSC** viewed from top External GROUND TO J1 PIN 1 side of PC Board +5 Vdc External power TO J1 PIN 3 #6 screws holes 4 places 0.175 2.10 1.70 4.50 **EXECUTIVE ENGINEERING** 3143 N.W. 41st Street Lauderdale Lakes, FL. 33309-4934 E-Mail: Sales@Exec-eng.com || Web: http://www.Exec-eng.com/ || Phone / Fax / v-mail / (954) 485 - 0177

