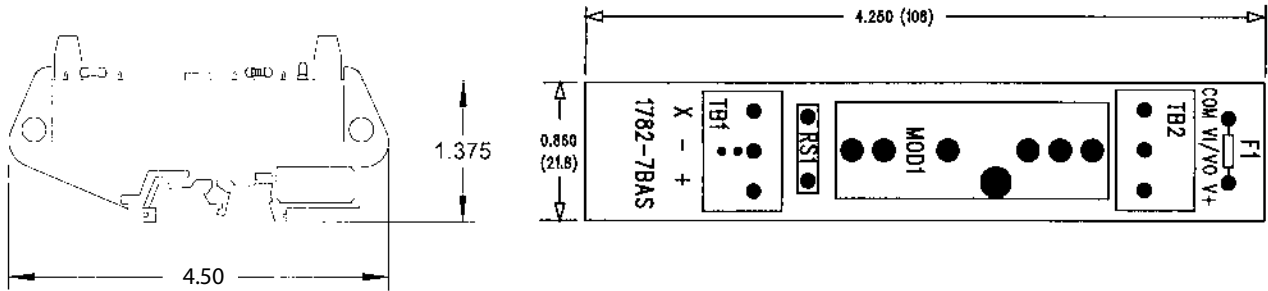


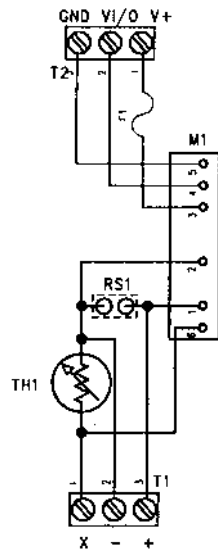
1782-7BAS mounting board accepts one 1781-7B or WRC7 compatible module in a convenient DIN-rail mount package. A temperature sensor is mounted on board to provide cold junction compensation for thermocouple modules.

Field connections are terminated with screw terminals. Logic side connections are terminated with screw terminations.

MOUNTING DIMENSIONS



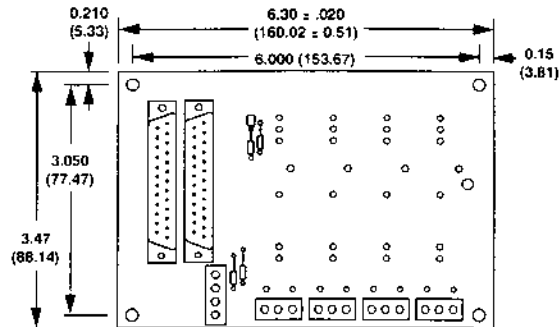
SCHEMATIC DIAGRAM



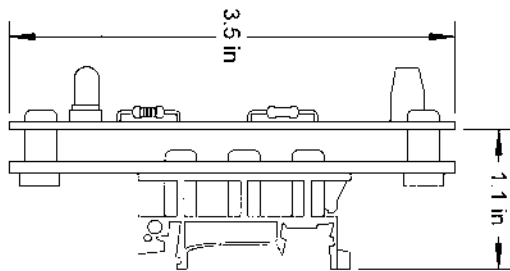
The Panel-Mount 1781-7B04 and DIN-Rail Mount 1782-7B04 are 4-channel backplanes for use with the 1781-7B Series, WRC7 Series or compatible signal conditioner line. Both backplanes are powered by a user supplied 24 V dc power supply with primary and secondary receptacles for uninterrupted operation. One 25-pin D-type connector provides a connection to the “logic” side of the 1781-7B04. Field-side terminations are achieved with screw terminations. For the 1781-7B04, 3/4" standoffs are provided for panel mounting. DIN-rail mounting is provided for the 1782-7B04. The 1781-7B04 Mounting Board is fuse protected through F1. If the input supply voltage connection is reversed, diode DI will be forward biased to protect the modules. Provision is available for a user-provided, second, 25-pin, D-type connector.

MOUNTING DIMENSIONS

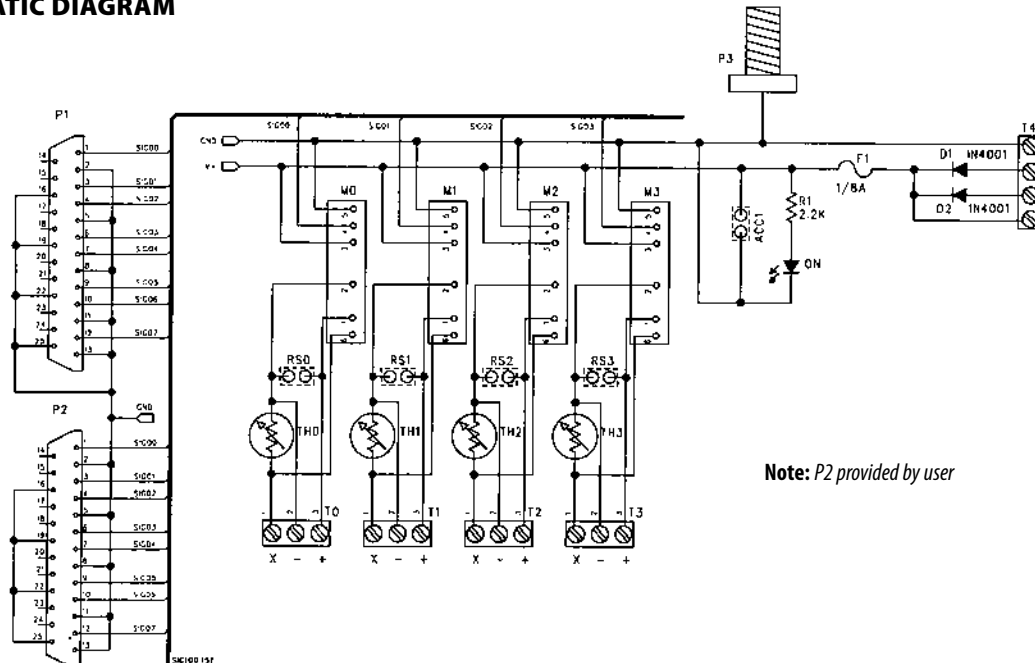
1781-7B04



1782-7B04



SCHEMATIC DIAGRAM

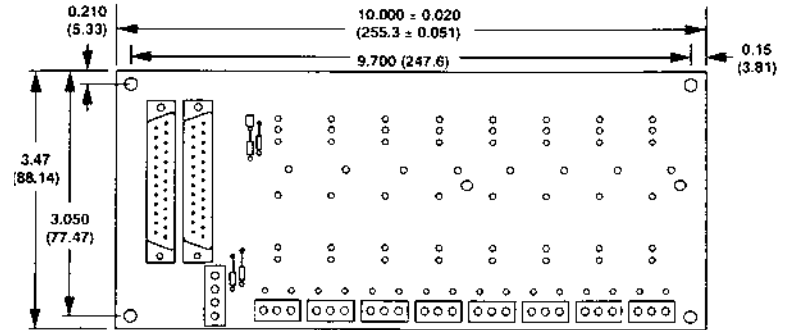


Note: P2 provided by user

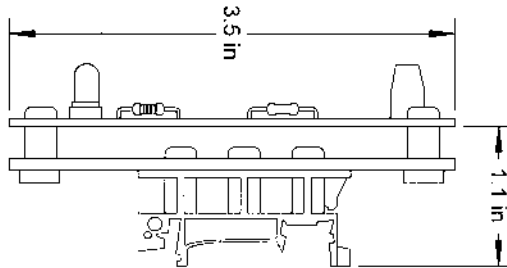
The panel-mount 1781-7B08 and DIN-rail mount 1782-7B08 are 8-channel backplanes for use with the 1781-7B, WRC7, or compatible module line. Both backplanes are powered by a user supplied 24 V dc power supply with primary and secondary receptacles for uninterrupted operation. One 25-pin D-type connector provides a connection to the logic side of the 1781-7B08. Field-side terminations are achieved with screw terminations. For the 1781-7B08, 3/4" standoffs are provided for panel mounting. DIN-rail mounting is provided for the 1782-7B08. The 1781-7B08 Mounting Board is fuse protected through F1. If the input supply voltage connection is reversed, diode DI will protect the modules. Provision is available for a user-provided second 25-pin D-type connector.

MOUNTING DIMENSIONS

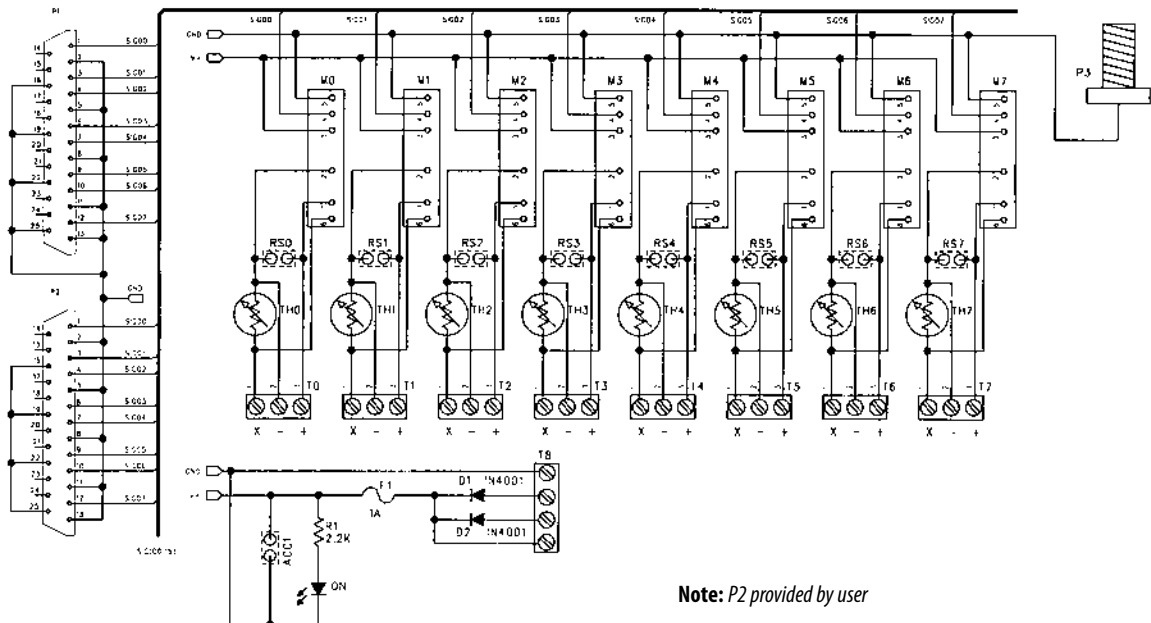
1781 7B08



1782 7B08



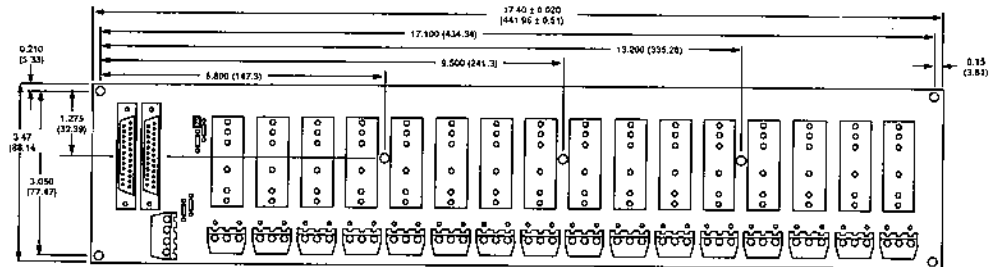
SCHEMATIC DIAGRAM



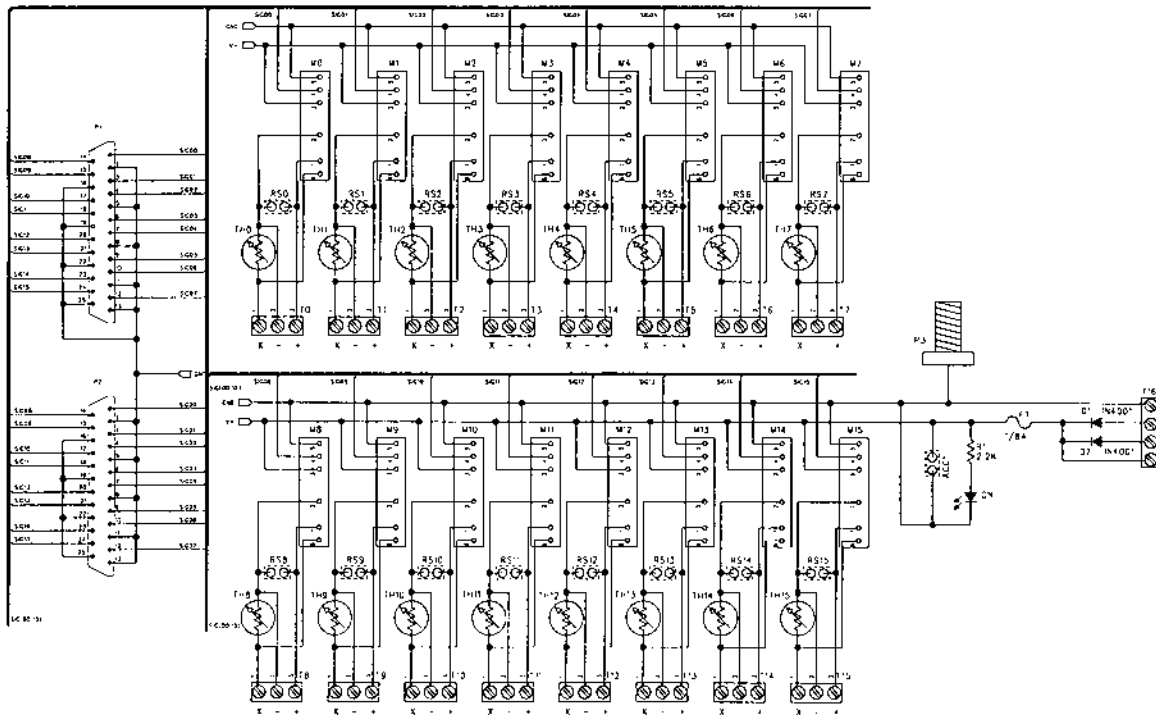
Note: P2 provided by user

The 1781-7B16 is a 16-channel panel-mount backplane for use with the 1781-7B, WRC7, or compatible module line. The 1781-7B16 is powered by a user supplied 24 V dc power supply with primary and secondary receptacles for uninterrupted operation. One 25-pin D-type connector provides a connection to the logic side of the 1781-7B16. Field side terminations are achieved with screw terminations. 3/4" standoffs are provided for panel mounting. DIN-Rail Mounting is not available. The 1781-7B16 Mounting Board is fuse protected through F1. If the input supply voltage connection is reversed, diode DI will protect the modules. Provision is available for a user-provided, second, 25-pin, D-type connector.

MOUNTING DIMENSIONS



SCHEMATIC DIAGRAM



Note: P2 provided by user

The 1781-STB-TC is a special analog termination board for use only with 1781-JxA SmartMux adapters. The 1781-STB-TC provides a low-cost means to provide 15 thermocouple measurements of the same type and range with a SmartMux. The 1781-STB-TC electrically looks like a 1781-5B16 analog input mounting rack to the SmartMux, but it is dedicated to use with a single thermocouple type and range. Applications should be limited to those where isolation between thermocouples is not required. For those applications requiring multiple thermocouple types or isolation between thermocouples, consider the 1781-5B or 1781-7B series of input modules. The 16th. thermocouple input channel is dedicated for cold junction compensation.

APPLYING MOUNTING BOARD

Number of Channels

15 differential thermocouples Plus one input for CJC

Input Voltage Range

+/-5V, +/-100 mV, +/-50 mV, +/-25 mV, +/-10 mV, +/-5 mV

Input Over-voltage Protection

+/- 30V

Input Resistance

1 Gig Ohm

Gain Accuracy

+/- 0.05%

Input Offset

+/- 15 micro-volt

Output Offset

+/- 2.5 milli-volts

CJC Accuracy

+/- 1 degree C

Low Pass Filter Frequency

8 Hz, removable by customer

Common Mode Rejection

100 dB

Power Requirements

+ 5V @ 200 mA

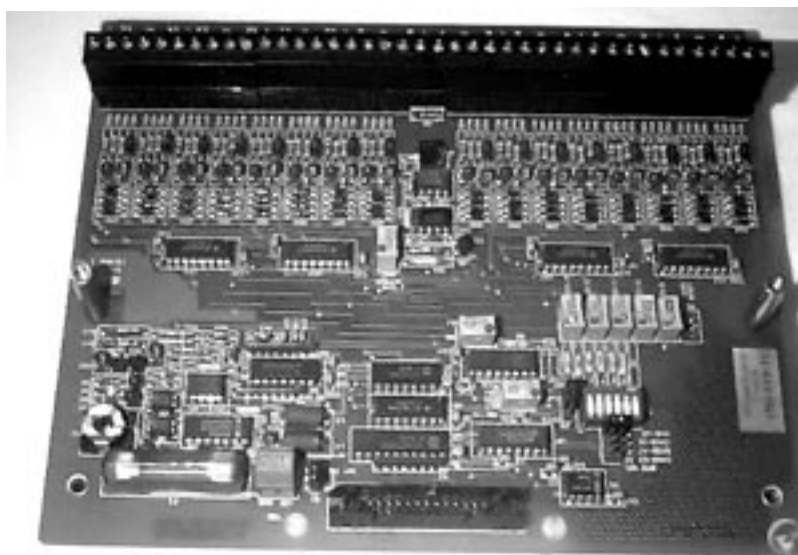
Physical Dimensions

8.25" x 6.8" x 1.97"

(20.95 cm x 17.27 cm x 5.0 cm)

Operating Temperature Range

0 to 60 degree C



1781-STB-TC