



2000 Series CMS Analog  
Input Board 43743-1010

### FEATURES

- Provides 24 single-ended analog input signals per board
- Allows each input to be selected independently for voltage input range
- Used in conjunction with the Tetragenics' CMS Analog-to-Digital Converter Board
- Interfaces to Tetragenics' 2000 Series Bus
- Contains a plug-in module for the Tetragenics CMS

### POWER REQUIREMENTS

35 mA @ +15 Vdc  
30 mA @ -15 Vdc

### ENVIRONMENTAL DATA

Operational Temperature: 0 to 55° C  
Storage Temperature: -40 to 70° C  
Humidity: 95% Noncondensing

### MECHANICAL DATA

Standard Double-Height Eurocard;  
Overall sizes to DIN 41 494 part 2,  
IEC 297-3 (6.299" x 9.187")

**Front Panel:** \*6 U x 4 HP (10.3" x .8")

**Weight:** Approximately 16 oz.

\* U = 1 unit (approx. 1.71 inches)  
HP = Horizontal Pitch approx. 0.2 inches

### INPUT VOLTAGE RANGE OPTIONS

± 10 Volts ± 20 Volts ± 60 Volts

### ACCURACY

(Includes CMS Analog-to-Digital  
Conversion Board)

± 10 V: ± 0.133% ± 27 ppm/° C  
± 20 V: ± 0.333% ± 77 ppm/° C  
± 60 V: ± 0.333% ± 77 ppm/° C

### DESCRIPTION

The 2000 Series Communications Monitoring and Control System (CMS) Analog Input Board contains 24 single-ended input points that the system processor can select. Once the processor selects an analog quantity, after an appropriate settling time, the A/D Converter Board converts the selected quantity to a 12-bit digital number. This number is then read under interrupt by the system processor.

Using the Analog Input Board, the input can be fed directly into the front end buffer, or it can pass through a voltage divider to the buffer. The voltage divider can be a 1/2 divider with 20 kohms of input impedance, or a 1/6 divider with 60 kohms of input impedance. Inputs that feed directly into the buffer have over 200 kohms of input impedance. The options are selected with on-board jumpers.

