



FOUR-CHANNEL VOLTAGE OUTPUT MODULE

FEATURES

- **Voltage Output**
- **Works with IMP-Series Data Loggers**

The CSDM-A04 provides four independent, continuous, analog outputs for proportional control or driving strip charts. Measured or processed values in the IMP-series of data loggers (IMP-855/865/900/950) are scaled to millivolts and transferred to the CSDM-A04 as digital values. The CSDM-A04 then performs a digital to analog conversion and outputs an analog voltage signal. The output voltage levels are maintained until updated by the data logger.

CSDM Operation

The data logger enables individual modules through an addressing scheme; multiple SDMs (in any combination) can be connected to one data logger. After a module is enabled, it operates independently of the data logger until additional commands are received or results are transmitted. Total cable length between data logger and all SDMs cannot exceed 20 feet (6 m).

Power Supply

It is often convenient to power the CSDM-A04 from the data logger power supply, but when doing so consideration must be given to the CSDM-A04's 10.5 mA continuous current drain. The alkaline supply available with the data logger has 7.5 Ahr and will power one CSDM-A04 for less than one month. This supply is not recommended for continuous long-term operation. The rechargeable lead acid option, float charged by an ac supply or solar panel, may be used for long-term operation. The CSDM-A04 may also be powered from an external 12 Volt supply, independent from the data logger supply.



SPECIFICATIONS

Valid for a temperature range of -25° to +55°C, unless otherwise specified.

OUTPUT SPECIFICATIONS

Voltage Output

Range:	0 to 5,000 mV
Resolution:	2.5 mV
Output Resistance:	200 ohms
Accuracy with $\geq 50,000 \Omega$ load:	$\pm 0.5\%$ of Vout
Accuracy with 4800 Ω load:	$\pm 4\%$ of Vout

Power

Operating voltage:	12 Vdc nominal (9.6 to 16 V)
Current drain at 12 Vdc:	10.5 mA
Output Current:	≤ 0.125 mA
Minimum Load:	75000 ohms

Environmental

Operating temperature:	-25° to +55°C standard
Humidity:	Non-condensing

Physical

Weight:

6.1" x 2.7" x 1.1" (15.5 x 6.9 x 2.8 cm)
14.4 oz. (0.410 kg)



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