

Dynalog-1K General Purpose Logger

Dynalog-1K Specifications

Analog Inputs

Number of channels 8 differential or up to 16 single-ended. Each differential channel can be configured as two single-ended channels

Range ± 2.5 mV to ± 5 V

Resolution 0.6% to .33 mV

Accuracy (0° to 40°C) .12% (-25° to $+50^\circ\text{C}$)

Channel Expansion

The Relay Multiplexer allows up to 64 single-ended channels to multiplex into four CR1000 single-ended channels. A maximum of three multiplexers may be connected to one CR1000

Excitation Outputs

Description 3 switched excitations, active during measurement, with one output active at a time. Nonactive outputs are high impedance

Output ± 25 mA, Current ± 2.5 V, Range .67 mV Resolution

Period Averaging Measurements

Inputs Any of the 16 single-ended analog input channels may be selected for period averaging. Signal amplitude reduction or AC coupling is normally required

Pulse Counters

Two Pulse counter channels 24-bit range.

Maximum Count Rate

16 kHz, eight - bit counter; 250 kHz, sixteen-bit counter. Channels are scanned at 8 or 64 Hz (software selectable)

Digital I/O ports 8 ports, software selectable as binary inputs or control outputs. Can be configured to count switch closures SDI-12 Communication.

Output Voltages High $5.0\text{ V} \pm 0.1\text{ V}$; low $< 0.1\text{ V}$

Memory 2M SRAM standard. Memory for non-volatile readings. Additional 4M available option.

System Voltage 9.6 to 16 volts

General Purpose System Logger

This instrument is a rugged measurement and control system that delivers accurate, reliable measurements in a variety of applications. It combines the ability to measure virtually any sensor with the control capability to respond to specific site conditions.

Applications

- Meteorology
- Agriculture research
- Soil moisture
- Water resources
- Phytoremediation



Dynalog Logger Ordering Information

Dynalog-1K



A general purpose logger system, fully assembled - DNX1K based self contained DNX1K logger for 32 sensor capacity. Includes: 32 channel multiplexer, 8 control ports, 4 excitation channels, RS-232 Port, 9 Pin to PC comm. cable, control cable, data retrieval and analysis software, battery and charger, 110 V, 60 Hz, or 220 V, 50 Hz charger, fiberglass enclosure, two outlets with PVC adapters. Requires selection of probes, cables, PC for total system. Solar Panels are optional.

Range and Resolution

Ranges are software selectable for any channel. The resolution for differential measurements is better than that for single-ended measurements because two measurements are averaged together.

Full Range Input range (mV)	Resolution (μV)	
	Differential	Single-ended (mV)
$\pm 5,000$	667	1333
$\pm 2,500$	333	666
± 250	33.3	66.6
± 25	3.33	6.66
± 7.5	1.00	2.00
± 2.5	0.33	0.66

Some images were provided by Campbell Scientific Inc.

Dynamax Inc

10808 Fallstone Rd #350

Houston, TX 77099 USA

Tel: 281-564-5100 Fax: 281-564-5200

admin@dynamax.com

www.dynamax.com



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