

Datataker 5

S I N G L E C H A N N E L D A T A L O G G E R S



The Datataker 5 is a single-channel battery-powered data logger for recording events.

The recording interval can be set from 1 second to 18 hours. Up to 2000 records can be logged, or up to 16000 records can be logged, depending on the model.

The Datataker 5 is controlled by an internal microprocessor and clock calendar. All records are logged into non-volatile memory that retains data for 100 years without power.

The Datataker 5 is programmed using menu-driven software that runs on an IBM® PC or compatible desktop, laptop or notebook computer. Functions include logger startup configuration, downloading data, file handling, date- and time- stamped listings, graphs, reports and generating spreadsheet-compatible data files.

- Datataker 5E counts digital events, 16000 records

The software package and communications cable are purchased separately.

General Features

- Memory capacity for up to 16000 readings in the DT5E,
- Battery life up to 1 year with a 9V alkaline transistor battery (depending on sensor support), longer for a lithium battery
- Internal clock/calendar controls startup and sampling. Data recording can be set to start in the future.
- Total data security: non-volatile memory (does not require battery power) means recorded data cannot be lost through noise or battery failure
- Data can be downloaded at any time during logging operations without interrupting or losing records.
- No operator controls. All settings are initialized from a computer with a user-friendly software package.
- Rugged, weatherproof, stainless steel enclosure protects the logger from mechanical and environmental damage.
- Optional waterproof (IP68, NEMA 8) enclosure available.

Applications

- Monitoring contact closures such as from machines, production counting, rain gauges, electricity and gas consumption, etc.



DATA ELECTRONICS
(Aust.) Pty. Ltd.

Certified to ISO9002

TOTAL QUALITY COMMITMENT

Specifications

General

Sampling Rate	Programmable from once every second to once every 18 hours
Data Security	Data retained in non-volatile memory without battery power for 100 years
Memory Life	5000 logging operations
Battery Life	Up to 1 year for 9V alkaline battery. Longer for lithium battery. Batteries can be changed in the field.
Dimensions	210mm x 50mm x 25mm
Weight	600g
Environmental	DT5E -10 to 55°C, 100% humidity

5E/16 Event Loggers

Function	Counts and records digital events
Event Input	Contact closure or NPN transistor
Max Count Rate	15 counts/sec
Debounce	20 mS
Counts/Record	8 bit mode for 0 to 254 counts, 16 bit mode for 0 to 65000 counts, user-selectable from software
Memory Capacity	DT5E/16 8 bit mode - 16000 records 16 bit mode - 8000 records

Connection 1 metre cable to computer for setup & unload

5V Voltage Logger - no longer made

Function	Records voltage or current loop
Voltage Ranges	0 to 1.25VDC, or 0 to 2.5VDC
Current Ranges	0 to 25mA or 4 to 20mA using an external 121Ω current shunt, ranges are user-selectable
Input Impedance	10KΩ
Analog Conversion	8-bit mode or 10-bit mode, user-selectable from software
Resolution	0 to 1.25V 8-bit mode - 4.8mV 10-bit mode - 1.2mV 0 to 2.5V 8-bit mode - 9.8mV 10-bit mode - 2.4mV
Accuracy	Better than 1%
Memory Capacity	8-bit mode - 16000 records 10-bit mode - 8000 records
Connection	Screw terminal inside case

5PT and 5PTP Temp. Loggers - no longer made

Function	Record low to mid range temperatures
Sensor	PT100, a=0.00385Ω/Ω/°C calibration Sensor mounted in case for DT5PT, in probe on 1 metre cable for DT5PTP
Ranges	-30 to +50°C (both versions) >-50 to +250°C (DT5PTP only) User-selectable from software
Analog Conversion	8-bit mode or 10-bit mode, user-selectable from software
Resolution	-50 to +50°C 8-bit mode - 0.4°C 10-bit mode - 0.1°C -50 to +250°C 8 bit mode - 1.2°C 10 bit mode - 0.3°C

Accuracy	Better than 1°C
Memory Capacity	8 bit mode - 16000 records 10 bit mode - 8000 records

5TK Temperature Logger - no longer made

Function	Record mid to high range temperatures
Sensor	Type K thermocouple
Ranges/Resolution	-50 to +50°C / 0.4°C resolution 0 to 100°C / 0.4°C resolution 0 to 250°C / 1°C resolution 0 to 500°C / 2°C resolution 0 to 1000°C / 4°C resolution 0 to 1200°C / 5°C resolution User-selectable from software
Analog Conversion	8-bit mode or 10-bit mode, user-selectable from software
Accuracy	Better than 1%
Memory Capacity	8-bit mode - 16000 records 10-bit mode - 8000 records
Connection	Screw terminal inside case

Datataker 5 Software Specifications

General	<ul style="list-style-type: none"> Runs on IBM® or compatible desktop or notebook computers User-friendly menu-driven interface All communications with the logger are via the parallel printer interface Software and communications cable to be purchased separately, usually as a single package for each computer
Functions	<ul style="list-style-type: none"> Programming logger sampling interval and sampling start time Selecting input ranges Downloading recorded data Filing downloaded data Graphic data presentation Tabular data presentation
Outputs	<ul style="list-style-type: none"> Date- and time-stamped listings of data Trend graphs of data Data summary ASCII files of data for importing into spreadsheets, word processors, and data analysis packages
Computer	<ul style="list-style-type: none"> IBM® or compatible DOS or Windows Minimum 256KB RAM One floppy disk or a hard disk

ORDERING

Datataker 5 Event Logger	
16000 record memory	DT5E
Software and Cable	DT5-CS
Software only	DT5-S
Cable only	DT5-C

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