

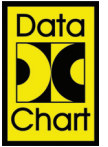


DataChart™ DC1250

2-Channel Paperless Recorder

Features:

- Communication options include Ethernet and USB
- Navigator software allows for full remote control
- Data can be transferred from CompactFlash® card to PC or can be viewed in real-time graphic format and stored to a remote hard drive
- Highly reflective twisted nematic LCD with LED backlight makes for a clear, bright display
- Graphic user interface can be configured to display real-time data or trend format
- Easy-to-follow menu system allows for intuitive process for configurable user interface
- Universal 100 to 240 V ac supplied; optional rechargeable battery pack available
- Can be used in conjunction with any of Monarch's 5 V dc speed measurement sensors to measure RPM



The DC1250 is a feature-rich digital recording system offering 2 universally configurable inputs for measuring DC voltage, DC current, thermocouples and RTDs as well as frequency and pulse inputs. Four internal alarm setpoints, 2 alarm relay outputs and 1 digital control input are all standard. Combining small package size with extreme flexibility make the DataChart 1250 a powerful, yet economical, digital data recording system. A maximum sample storage rate of 100 samples per second can be set for both channels allowing for capture of short duration process signals anomalies. CompactFlash™ cards up to 2 Gigabyte size can be used allowing many data points to be stored over long periods of time. With intuitive operation, flexible input configuration and large memory capability, the DataChart 1250 is a powerful, compact digital recorder.





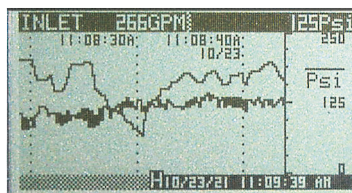
Advanced Features

USB Communication

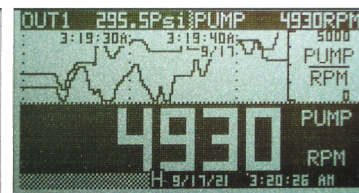
Communication options include Ethernet or USB. When used with Navigator software the user has full remote control of all recorder functions. Data can be transferred from the CompactFlash™ card to the PC or can be viewed in real-time graphic format and stored to a remote hard drive.

Bright, Clear Display

The DC1250 has a highly-reflective twisted nematic LCD with a bright white LED backlight. The graphic user interface can be configured to display real time data in digital or trend format. Configuring the 1250 is an intuitive process which uses an easy-to-follow menu system.



Dual Trend

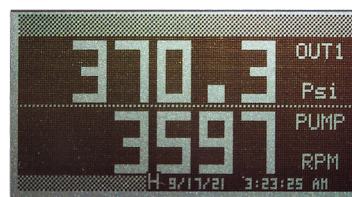


Split Screen

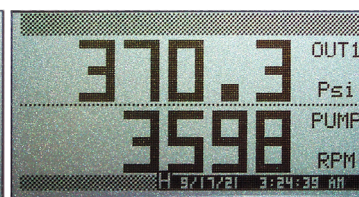
Versatile Power

The DC1250 is supplied with a universal wall transformer power supply that can operate from 100 to 240Vac 50/60Hz. It includes interchangeable plugs for North America, Australia, UK and Europe.

An optional isolated input power of 12-24Vdc is also available for use with instrument power supplies or external batteries.



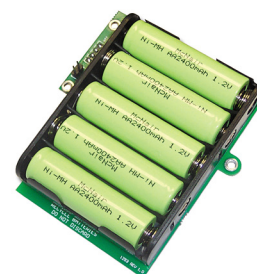
Dual Digital Inverted



Dual Digital

The DC1250's real time clock and internal RAM have a battery back-up to preserve data in the event of a power loss.

If losing data during a power outage is a concern, the user can add the rechargeable battery pack option. With the battery pack option installed, the DC1250 automatically keeps the rechargeable NiMH batteries charged to capacity. In the event of a power loss, the DC1250 automatically switches over to internal battery power. All functions continue to operate as normal for up to 6 hours! This option* is also great for using the DC1250 in areas where no AC or DC power is available. (*Not available with the DC Input power option.)



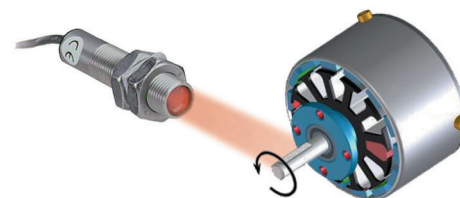
*Internal Rechargeable
NiMH Battery Pack*

Ethernet Communication

A rear accessible RJ45 Ethernet port is available. With this option, the DC1250 can be connected to any Standard 10/100BaseT Network. Access and transfer data stored on the compact flash card. View real-time trended data and remotely control and configure recorder with Navigator software. The built-in web server allows real-time data viewing with only an internet browser.

Measure RPM

The DC1250 can be used in conjunction with any of Monarch's 5 V dc-powered speed measurement sensors. Power for sensors is provided from the DC1250 rear terminals. Measure, display and record RPM ranges from 5 - 600,000. Choose the sensor best suited for your application or take your existing signal directly into the 1250.



ROS-W Remote Optical Sensor



Specifications* for the DataChart™ DC1250 2-Channel Paperless Recorder

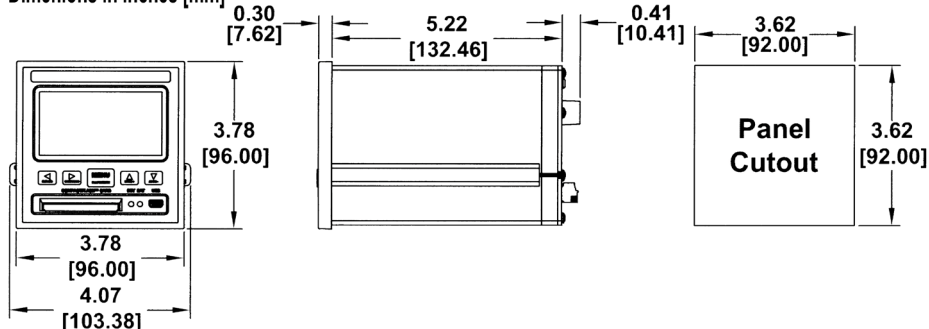
Input Power	Recorder: 9 V dc +0.5 V @ 5 VA (depends on external loads) External AC Universal Adaptor: 100 – 240 V ac 50/60 Hz Optional Isolated: 12-24 V dc input (not compatible with Battery Backup Option)	Input Impedance	> 100 k ohms
		Measurement Rate	Up to 100 samples/sec per channel
		Math Function	y = mx + b; average, hi peak., lo peak, totalizer
Battery Option	Internal battery pack provides uninterrupted operation during blackout; 6 V dc 2400 mAh NiMH Backup Time: Depends on External load Without Ethernet: 6 hours typical With Ethernet: 2.5 hours typical	Media	CompactFlash to 2 GB
		Display	LCD graphics 160x80 pixels, black FSTN with white LED backlight; user-controlled backlight level and contrast adjust (electronic)
Output	Two (2) outputs 5 V dc @ 50 mA to power external sensors Isolation - 300 V dc/ac to system ground/chassis	Display Modes	Trending (horizontal), large dual digital readout, mixed mode
No. of Channels	Two (2)	User Interface	Five (5) buttons keypad with second function operation
Universal DC Input	Isolated Input: 300 V ac/dc to system ground/chassis; inputs share a common ground connection	Clock	Internal battery-backed clock with auto leap year and daylight savings
DC Input	Resolution: 0.025%	Relay Output	Two (2) alarm outputs - 30 V 0.5 A Form A relays
Voltage	Ranges: 0 to 250 mV; 1.25 V; 2.5 V; 5 V; 12.5 V; 25 V Accuracy: 0.1%	Opto-Isolated Input	One input 5 to 12 V dc operation @ 10 mA typical
Current/Accuracy	0.1% excluding 250 ohm external shunt (required)	Audible	Internal beeper (tones)
Current/Ranges	0 – 20 mA; 4 – 20 mA; 0 – 50 mA; 10 – 50 mA	Dimensions	Front panel: 96 mm x 96 mm (1/4 DIN) x 152 mm (3.78 in. x 3.78 in. x 6 in.)
Thermocouple	Accuracy: 0.3%. Ambient temp. sensor accuracy +1.5°	Environmental	Indoor Use Only Installation Category II per IEC 664 Pollution Degree Level II per IEC61010-1
	J -100 to 760 °C +2 °C (-148 to 1400 °F +3 °F)		Altitude
	K ¹ -100 to 1000 °C +2 °C (-148 to 1832 °F +3 °F)	Temperature	-10 °C to 50 °C operating per IEC61010-1
	K ² 0 to 1370 °C +2 °C (32 to 2498 °F +3 °F)		
	T -100 to 400 °C +2 °C (-148 to 750 °F +3 °F)	Certifications	CE – EN61326 EMI/EMC EN61010-1 Safety UL and cUL (Power Supply)
	E -80 to 400 °C +2 °C (-112 to 750 °F +3 °F)		
RTD	2 or 3 wire; Resolution: 0.1°C, Accuracy: 0.3% Internal current source: 1mA 100 ohm Pt385: -100 to 750 °C (-148 to 1380 °F) 100 ohm Pt 392: -100 to 750 °C (-148 to 1380 °F)	USB	Front panel USB 2.0 slave port for data transfer and configuration
	Frequency Input (Hz)/Speed Input (RPM):		Ethernet
Range	0 – 10,000 Hz or 0 – 600,000 RPM		
Accuracy	Frequency +1Hz; RPM: +1 RPM to 9,999 RPM then +10RPM		
Input	Low <1.0 V dc High >3.0 V dc <12 V dc		
Pulse Width	104sec minimum		

*Specifications are subject to change without notice.



Rear Panel

Dimensions in inches [mm]

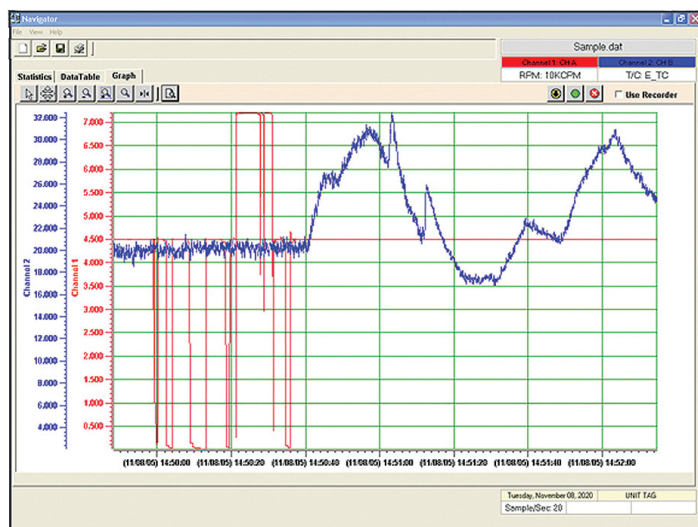


DataChart™ DC1250 Paperless Recorder

DataChart Navigator Software

DataChart Navigator software makes reviewing, printing and exporting data easier than ever. Simply start the program, double click the data file and Navigator does the rest. Your data file is displayed in one graphic window complete with the scales as programmed in the DC1250 as well as date and time stamps. You can expand, compress or use the box zoom to display specific areas of data as needed. The print preview feature allows review prior to printing. With the optional USB or Ethernet communications, Navigator turns your computer into a real-time data acquisition system as graphical data is streamed in and displayed. These "snapshot" files can be saved in addition to files being stored on the DC1250. The built in Ethernet webserver allows you to view real-time data using only a web browser. Exporting data is as simple as clicking the Excel™ Icon in the Data table export window. Navigator automatically converts the historic data, starts up Excel™ and loads your data into an organized spreadsheet.

Minimum system Requirements: PC running Windows® 2000 or XP, 40 MB free disk space and CD ROM Drive.



File View Help

Sample dat

Channel1: CHA Channel2: CHB

RPMT: 18KCFM T/C: ETC

Statistics DataTable Graph

Time	h:mm:ss.1/100	Channel 1 Value	Channel 1 Status	Channel 2 Value	Channel 2 Status
11/8/2005 14:43:42.5	4500	20:454	4500	20:454	
30	4498	20:464	4500	20:464	
35	4503	20:513	4500	20:513	
40	4504	19:307	4500	19:307	
45	4500	19:450	4500	19:450	
50	4501	19:682	4500	19:682	
55	4498	20:396	4500	20:396	
60	4501	20:337	4500	20:337	
65	4500	20:044	4500	20:044	
70	4498	20:163	4500	20:163	
75	4503	19:307	4500	19:307	
80	4504	19:868	4500	19:868	
85	4500	20:220	4500	20:220	
90	4501	20:220	4500	20:220	
95	4499	19:385	4500	19:385	
100	4499	20:396	4500	20:396	
105	4500	20:141	4500	20:141	
110	4498	19:832	4500	19:832	
115	4500	19:399	4500	19:399	
120	4504	19:610	4500	19:610	
125	4499	20:571	4500	20:571	
130	4500	20:044	4500	20:044	
135	4499	19:632	4500	19:632	
140	4499	19:634	4500	19:634	
145	4500	19:282	4500	19:282	
150	4499	19:634	4500	19:634	
155	4504	19:632	4500	19:632	
160	4504	20:220	4500	20:220	
165	4499	20:430	4500	20:430	
170	4501	19:791	4500	19:791	
175	4499	19:458	4500	19:458	
180	4499	19:385	4500	19:385	
185	4500	19:793	4500	19:793	
190	4499	19:399	4500	19:399	
195	4504	19:282	4500	19:282	
200	4504	19:458	4500	19:458	
14:49:50.0	4504	19:458	4500	19:458	
5	4498	19:131	4500	19:131	

Report

Include Columns

- ☒ Time Stamp
- ☒ Channel 1 Value
- ☒ Channel 1 Status
- ☒ Channel 2 Value
- ☒ Channel 2 Status

FILTER

☐ Use Time

From: 11/6/43 ---

To: 14/52/14 ---

Create Report

Tuesday, November 08, 2000 UNIT TAG

Sample/Sec: 20