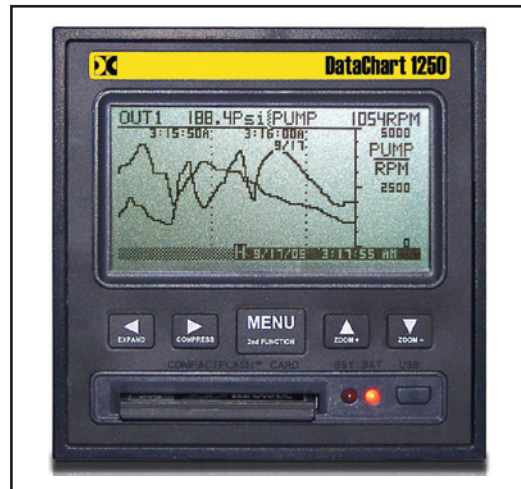


DFR 1250 - PAPERLESS RECORDER

The DFR 1250 is a feature-rich digital recording system offering two universally configurable isolated inputs for measuring DC voltage, DC current, thermocouples, and RTDs. It also offers frequency and pulse inputs, and can be used to measure RPMs with the correct speed measurement sensor. Combining small package size with extreme flexibility make the DFR 1250 a powerful, yet economical, digital data recording system. A maximum sample storage rate of 100 samples per channel can be set for both channels, allowing capture of short-duration signal anomalies. The optional DFR 1250 Navigator software offers many convenient and intuitive features to make reviewing, printing and exporting data easy. Optional USB or Ethernet ports available for easy data download, or network connectivity. It has a highly readable LED display, with backlighting displays real time date or trends. The flexible power supply can use the included AC adaptor, or input power (12-14 VDC) from another instrument or battery supply. (Optional rechargeable NIMH battery pack available.) Time clock and internal RAM have battery back-up to secure data.

- 4 INTERNAL ALARM SET-POINTS
- 2 ALARM RELAY OUTPUTS
- DIGITAL CONTROL INPUT
- INTUITIVE OPERATION
- FLEXIBLE INPUT CONFIGURATION
- LARGE MEMORY CAPABILITY



SPECIFICATIONS

GENERAL

CHANNELS: 2 universal, user selectable
INPUT IMPEDANCE: >100k ohms
MEASUREMENT RATE: Up to 100 samples/sec, per channel
MATH FUNCTION: Y=mx+b; average, hi peak, low peak totalization
MEDIA: CompactFlash to 2.0 GB
DISPLAY: LCD Graphics, 160 X 80 pixels, black FSTN with white adjustable contrast LED backlight.
DIMENSIONS: Front panel: 96mm X 96mm (1/4 DIN) x 152mm (3.78" X 3.78" X 6")
RELAY OUTPUT: 2 alarm outputs: 30V 0.5A Form A relays
ENVIRONMENT: Indoor use only
OUTPUT: 2 outputs 5Vdc @ 50mA to power external sensors

INPUT

STANDARD: 9Vdc \pm 0.5Vdc @ 5VA (depends on external loads) provided by external AC wall transformer (provided), non-isolated. 100-240Vac 50/60 Hz
OPTION: Isolated 12-24 Vdc input power available (not compatible with battery pack option below)
OPTION: Internal battery pack provides uninterrupted operation and controlled shutdown during blackout. 6Vdc, 2400mAH NiMH - backup time; 6 hours typical (depends on external load)

DC INPUT

VOLTAGE RANGES: 1-250mV; 0-1,25 V; 0-2.5 V; 0-5V; 1-12.5V; 0-25 V
CURRENT RANGES: 0-20mA; 4-20mA; 0-50mA; 10-50mA
RESOLUTION: 0.025% of full scale
ACCURACY: 0.1% of reading (excluding required 250 ohm external shunt for measuring current)

THERMOCOUPLE

TYPES: J, K1, K2, T and E
RANGES: Various ranges from -148 to 2498° F
ACCURACY: 0.3 % of full scale
SENSOR ACCURACY: NCY: \pm 1.5° C

RTD

TYPES: 100 Ohm Pt 385, and 100 Ohm Pt 392
RANGE: -148 to 1380° F

FREQUENCY (RPM*)

RANGE: 0-10000 Hz
RPM RANGE: 0-600k RPM
ACCURACY: Frequency: \pm 1.0 Hz
 RPM: \pm 1.0 RPM below 10K, and \pm 10 RPM above 10K

OPTIONAL

USB: Front panel USB 2.0 slave port for data and remote real-time display when using Navigator software
ETHERNET: Real time data display, historical data transfer, remote control and recorder configuration when using Navigator Software. Build in web server displays current measured values. Rear Panel port.

DFR 1250 - PAPERLESS RECORDER

ORDERING INFORMATION

DFR1250-



COMMUNICATIONS

- 0 None
- 1 USB Comms. (Front panel mini-USB port for downloading data to PC)
- 2 Ethernet (Rear panel 10/100BaseT Ethernet for network access to recorder. RJ45 connector)

BACK-UP

- 0 None
- 1 Battery Backup* (Rechargeable NiMH battery pack for up to 6 hours)

POWER

- U Universal AC adapter (100-240Vac wall adaptor with interchangeable plug set)
- D DC Input Power (12-24 Vdc)

*Not available with Option "D" DC Input Power.

ACCESSORIES

ITEM	DESCRIPTION
NAVIGATOR	Windows compatible software for graphic analysis, printing, transfer and real-time trending and exporting
CFCR	CompactFlash™ card reader USB 2.0
MAS250R	250 ohm precision resistor for current inputs 0.1% 0.5 watt
NIST-1250	N.I.S.T. calibration with data
NEMA 4X KIT	Hinged NEMA enclosure with removable clear front cover
COMPACTFLASH™	
MEMORY CARDS	MC256MBCF - 256 Megabyte MC512MBCF - 512 Megabyte MC1024MBCF - 1 Gigabyte MC2048MBCF - 2 Gigabyte
SENSORS (Plug and Play)	
THS-W	Temp/Humidity Sensor with 8 foot cable
ROS-W	Remote Optical Sensor with 8 foot cable, mounting bracket and 12 inches of reflective tape
MT-190W	Magnetic trigger sensor/amplifier with 8 foot cable
IRS-W	Infrared sensor with 8 foot cable, tinned wires and mounting bracket