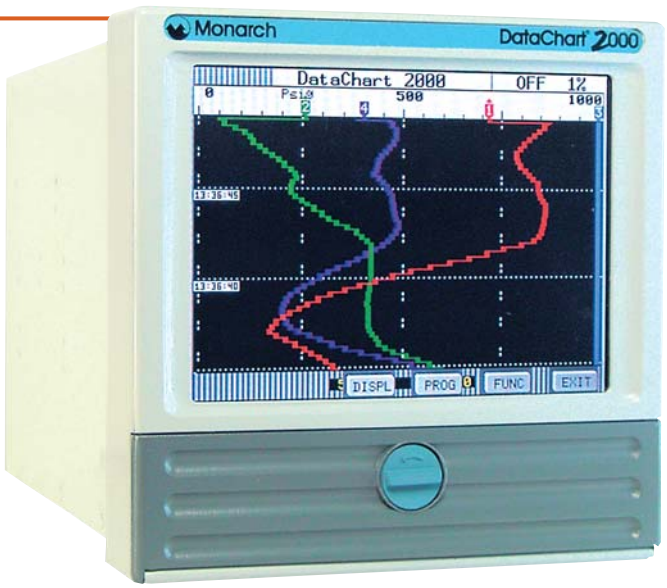
Monarch Paperless Recorder

- 2, 4 or 6 or 12 Direct Universal Inputs
- Up to 8 Samples per Second for Each Channel
- Active Matrix Color Display or Monochrome Display
- Intuitive Touchscreen Control with Anti-glare Coating
- IP65 Rated Front Panel
- Parallel Printer Output
- Serial Output Options: RS232 or RS485
- 10BaseT Ethernet Connection

The Data-Chart 2000 has 2, 4, 6 or 12direct universal isolated inputs that are menu selectable for DC voltage, DC current, thermocouples and RTD's. The intuitive "Touchscreen" control provides easy, fast set up and operation. Data is automatically downloaded to removable media. Standard removable storage is a 3.5" 1.44 Mb disk or, for large amounts of data, you can choose the flashcard option which will store up to 128 Mb of Data!

Our brilliant 5.6" (142 mm) active matrix TFT color display is the largest in it's class and with a special anti-glare coated "Touchscreen" the viewability is second to none. If you need a more economical solution, the DC2000 can also be ordered with a 5.0" super bright blue monochromatic display. The IP65 rated front bezel is ideal for mounting the 2000 series in wet or dusty environments.

Communication options offer great flexibility in accessing data or controlling the DC2000. Data can be accessed and downloaded over standard phone lines using the RS-232C option and a modem. The RS-485 Modbus option will allow the DC2000 to be installed into an existing Modbus network or you can connect up to thirty-one recorders in series. The 10BaseT Ethernet port option allows direct connection to LAN's or WAN's and the standard TCP/IP protocol means that you can transfer data over the Internet.



▲ **Data-Chart 2000**

Specifications

Voltage input ranges:	±150 mV ±1.2 V and 2.5V ±12.5V		
Current Ranges:	4–20 mA and 10–50 mA and 0-20 mA external with internally switched 50 ohm shunts		
Thermocouples:	B, C, E, J, K, R, S, T, Nickel/Nickel Moly and Nicrosil-Nisil		
RTD's:	10 ohm Cu, 100 ohm Pt 385, 100 ohm Pt 392, 200 ohm Pt 385 200 ohm Pt 392 and 120 ohm Nickel		
Input Resolution:	0.0015% of full scale		
Recording Rates:	Selectable from 8/sec. to 10 min.		
Media Measurements:	Capacity	Measurements	Capacity
Removable:	3.5" Disk	700,000	1.44 Mb
	Compact Flash Card	64 million	Up to 128 Mb
Internal:	1 Mb RAM (Non-Volatile) 2 Mb RAM (Non-Volatile)		
Display:	Mono-CCFL backlit STN Liquid Crystal Display 240 x 128 pixels Color-CCFL backlit Active Matrix TFT Liquid Crystal 320 x 240 pixels		
Display Modes:	Graphics Bar Graphs, Large Digital Display Alphanumeric Alarm and Event data, or combinations on a split screen		
Display Update Rate:	1 second. Programable from 1 second to 60 seconds		
Virtual Chart Speed:	Programmable: 0.5 in/hr to 600 in/hr		
Power Requirements:	100 to 240 VAC +10%, 50/60 Hz, or 125 to 300 VDC, 35 VA max. (Optional 24 VDC ± 15%)		
Operating Temperature:	5° to 40°C per UL3111-1/IEC1010-1		
Operating Humidity:	10% to 80% RH to 31°C decreasing linearly to 50% RH at 40°C per UL3111-1/IEC1010-1		

Ordering Information

To Order—Insert Number Code for Each Letter to Select Catalog Number
Order Example: MPDC2C1-U4-1-1-110

A	B	C	–	D	–	E	–	F	–	G	H	I

			Price & Adders
A	**Basic Unit**		
	MPDC2		
B	Display		
	C	Color Active Matrix	
	M	Monochrome	
C	Power		
	1	90–260 VAC/125 VDC	
	1ST	90–260 VAC/125 VDC w/Screw Term	
	2	18–30 VDC	
D	Isolated Input Modules		
	U2	2-Channel Universal, DC V/I, T/C, RTD	
	U4	4-Channel Universal DC V/I, T/C, RTD	
	U6	6-Channel Universal DC V/I, T/C, RTD	
	U12	12-Channel Universal DC V/I, T/C, RTD	
E	Data Storage—Removable		
	0	3½" Disk Drive	
	1	Compact Flash Card	
F	Output Options		
	0	No Alarm Outputs	
	1	6 Form C Contacts 3 Amp @ 250 VAC	
	2	3 Form C Contacts 3 Amp @ 250 VAC	
	3	6 Form C Contacts 0.5 Amp @ 30 VDC	
	4	3 Form C Contacts 0.5 Amp @ 30 VDC	
G	Communications		
	0	None	
	1	RS-485/RS-232C—Isolated, MODBUS ASCII	
	2	Ethernet (10 Base T)	
H	Data Storage—Internal		
	0	1 Meg Internal Ram	
	1	2 Meg Internal Ram	
I	Printer Port		
	0	None	
	1	Parallel Port (25 Pin D Shell)	

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Transcat Recorder—1/4 DIN, Paperless

True paperless recording

- Direct Digital Recording—No Paper Rolls or Charts
- Replaceable, Reusable Memory Cards
- Dual-Channel Input
- Wide Variety of Input Modules
- Four Internal Alarms
- Fully Front Panel Programmable
- Maximum Sample Rate 100/sec

The 5250E allows unattended recording of a variety of input signals on either or both of its two channels. Memory cards are available in 256 kb, 512 kb, and 1024 kb sizes. The 1024 kb version can store from 1 hour: 26 minutes at 100 samples/second using both channels to 9½ years at 1 sample every 10 minutes using both channels.

Choose sample rates, recording time, engineering units, alarm set points (Model 5250E-1), recording method, and other set-up parameters using the simple menu-driven design.

Built-in data storage allows you to view and manipulate on-screen previously recorded data, while still recording data in real time on the memory card. Optional Windows Based software allows you to analyze, print, and export your data to other programs, including most common spreadsheet and word processing applications.

▲ **5250E-1**

▲ **Software in use**

Ordering Information

Order #	Mfg #	Description	Price
MP5250E	5250E	Paperless Recorder*	
MP5250E-1	5250E-1	Paperless Recorder with Dual Relays*	
		*Note: Requires Input Card (see below)	
Input Modules			
MP5251E	IP1	4-20 mADC Input Card, Isolated	
MP5252E	IP0	1-5 VDC Input Card, Isolated	
MP5253E	ID3	0-10 VCD Input Card, Isolated	
MP5254E	I12	0-100 mADC Input Card, Isolated	
MP5255E		0-600 VAC Input Card, Isolated	
MP5256E	IA7	0-1 AAC Input Card, Isolated	
MP5256E-5		0-5 AAC Input Card, Isolated	
MP5257E-J	IJ1	Type J T/C,-300 to 1400F/-200 to 760C Input Card, Isolated	
MP5257E-K	IK1	Type K T/C,-185 to 1975F/-120 to 1080C Input Card, Isolated	
MP5257E-T	IT0	Type T T/C,-110 to 7500F/-80 to 400C Input Card, Isolated	
MP5257E-E	IE0	Type E T/C,32 to 17600F/0 to 960C Input Card, Isolated	
MP5258E	IR1	RTD 100 Pt., 32 to 750F/0 to 400C Input Card, Isolated	
MP5263E	NS-2	RH/Temp 10-95%/0-55C Input Card, Isolated (uses both inputs)	

Ordering Information

Order #	Mfg #	Description	Price
MP5259E-1	MC256	256 kb Memory Card	
MP5259E-2	MC512	512 kb Memory Card	
MPMC1024	MC1024	1024 kb Memory Card	
MP5260E	CR-1	Card Reader, Cables, Power Supply and Software for IBM PC or Compatible/Windows Based	

Transcat Accredited Calibration with Data	**CALL**
Transcat Accredited Calibration without Data	**CALL**

Eurotherm Chessell 4181G Graphic Recorder

- 180 mm Video Chart Recorder
- Up to 48 Inputs
- Touch-Sensitive Color LCD Screen
- Integral Six-Color, Multi-Point Printing
- Data Storage to PCMCIA Memory Card

The 4181G, high specification, 180 mm graphic chart recorder combines the latest technology with the proven reliability for which Chessell are renowned. A back-lit VGA liquid crystal display uses tough thin-film transistor (TFT) technology to give exceptionally vivid color and clarity unmatched by conventional CRT displays, and up to 24-channels can be updated and printed every three seconds. Concurrent annotation of time and date markings, channel tags, scales, alarm messages and so on to produce a clear record for later reference.

4181G

Specifications

Max Number of Inputs:	48 DC inputs*; 24 resistance inputs; 39 contact closures
Linearizations:	
T/C Types:	B, C, E, J, K, L, N, R, S, T, Ni/NiMo
RTD Types:	Pt100, Pt1000, Ni100, Ni1000, Cu10
Voltage Inputs:	4 mV to 5V (100V with attenuator)
Current Input:	Across 250Ω shunt
Line Voltage: (45 to 65 Hertz)	90 to 132V or 180 to 264V (User selectable)

Ordering Information

Order #	Description	Price
MP4181G/0/10/STD	8-Channel, 180 mm Graphic Recorder	
MP4181G/0/20/STD	16-Channel, 180 mm Graphic Recorder	

Eurotherm Chessell 4250G Graphic Recorder

- 250 mm Videographic Recorder
- Up to 96 Inputs
- Touch-sensitive Color LCD Screen
- Optional Six-Color, Multi-Point Integral Printer
- Data Storage to PC Card
- RS 232/485 Modbus Communications
- Over 500 Points Available Using Remote I/O Racks
- High Speed Scanning (All Inputs in 1 sec)

The 4250G is a 250 mm graphic chart recorder. It's back-lit VGA liquid crystal display uses tough thin-film transistor (TFT) technology to give exceptionally vivid color and clarity unmatched by conventional CRT displays. The display can show process values in a choice of three formats: strip chart, bar-graph and numerical.

4250G

Specifications

Max Number of Inputs:	96 DC inputs*; 56 resistance inputs; 78 contact closures
Linearizations:	
T/C Types:	B, C, E, J, K, L, N, R, S, T, Ni/NiMo
RTD Types:	Pt100, Pt1000, Ni100, Ni1000, Cu10
Voltage inputs:	4 mV to 5V (100V with attenuator)
Current input:	Across 250Ω shunt
Line voltage: (45 to 65 Hz)	90 to 132V or 180 to 264V (User selectable)

Ordering Information

Order #	Description	Price
MP4250G/0/10/STD	8 Channel, 250 mm Video Graphic Recorder	
MP4250G/0/20/STD	16 Channel, 250 mm Video Graphic Recorder	

Contact your Transcat authorized representative today!

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Eurotherm Chessell Paperless Recorders

- Ethernet Ready
- Color Touch Screens
- Standard Software
- IP65 Bezel and Display
- 125 ms Sampling
- Universal Inputs VDC, mVDC, mADC TCs, TRD and Contact Closure

The 5100e offers the input, network, display and software excellence of a Chessell graphic recorder at an economical cost. It has 6 freely configurable input channels and a single relay output. Six math channels, six totalizers and transmitter power supply are also available on each unit. The operator interface is a 5" color 1/4 VGA touch screen. This unit comes with a floppy disk drive and PC software for configuration and data archive databasing.

The 5100V and 5180V is a graphic DAQ recorder featuring up to 12 universal inputs in the 5100V and up to 36 universal inputs in the 5180V. Both recorders scan rate 125ms, offer form C alarm output relays and offer 36 math channels and 12 totalizers. Data is presented in chart bar and numeric displays on a VGA TFT color LCD screen. The process data can be logged to the replayed from a choice of floppy disk, PC card or compact flash drive. These units feature a simple to use Windows-based system configurator that is mirrored in the PC -based configuration program, allowing easy transition between the two methods of set up.

5100-Family

Ordering Information

To order - Insert Number Code for Each Letter to Select Catalgo Number
- Order Example - 5100e/6H210022461

5100e/6H [A] [B] [C] [D] [E] [F]

A	**Quantity of Shunts**		**D**	**Transmitter Supply**		
		Number of Shunts		None	Non Fitted	Std.
B	**Shunt Value**			TRNSI	24V Power Supply	
	0	None	**E**	**Math/Totalizers**		
	100	100 Ohm		0	None	Std.
	200	200 Ohm		6	6 Math Ch/6 Totalizer	
C	**Quantity of 100:1 Attenuators**		**F**	**Groups**		
		Number of Attenuators		1	1 Group	Std.
				2	2 Groups	

Specifications

	5100e	5100V	5180V
Screen Size	5"	5.5"	12.1"
Number of Inputs	6	6 or 12	6, 12, 18, 24, 30 or 36
Relay Outputs	1	3, 6, 9 or 12	3, 6, 9 or 12
Data Storage	3½" Floppy	PC Card or 3½" Floppy	
Ethernt Network	Standard		
File Transfer	Standard		
Screen Builder	Not Available	Available	
Panel Cutout	5.43" x 5.43"		11.06" x 11.06"
Weight	1.4 lb (3kg)		3.7 lb (7.5 kg)

Ordering Information

To order - Insert Number Code for Each Letter to Select Catalgo Number- Order Example - 5180V18110410040E000BM2

[A] [B] **1** [C] [D] [E] [F] [G] **0E6000** [H] **S** [I] [J] **O**

A	MP5100V	5.5"Color Paperless Recorder		E	**Quantity of Shunts**		
	MP5180V	12.1" Color Paperless Recorder			Number of Shunts		
B	**Number of Channels**			F	**Shunt Value**		
	06	6 Channels	NC		0	None	
	12	12 Channels			100	100 Ohm	NC
	18	18 Channels*			200	200 Ohm	NC
	24	24 Channels*		G	**Quantity of 100:1 Attenuators**		
	30	30 Channels*			Number of Attenuators		
	36	36 Channels*		H	**Batch**		
C	**Archive Type**				0	None	NC
	1	1.44 Mb Floppy Drive	NC		B	Batch	
	2	PCMCIA Drive	NC	I	**Math/Totalizers**		
D	**Memory Card Size**				0	None	Std.
	0	None	NC		M	36 Math Ch/12 Totalizers	
	B	8 Mb Flash ATA Card		J	**Relay Outputs**		
	H	16 Mb Flash ATA Card			1	3 Form C Relay Outputs	NC
	J	32 Mb Flash ATA Card			2	6 Form C Relay Outputs	
	K	64 Mb Flash ATA Card			3	9 Form C Relay Outputs	
	L	256 Mb Flash ATA Card			4	12 Form C Relay Outputs	
	M	260 Mb Hard Drive					

Note: for French version, replace 'E' with 'F' in part number
*-Only Available on 518V Model

Honeywell VRX150 Video Recorders

- 264 mm (10.4") Diagonal Color Active Matrix Display
- 3.5" 1.44 Mb Floppy Disk Drive
- Up to 12 Universal Analog Inputs
- Up to 4 Loops Control
- Fuzzy Logic Setpoint Overshoot Suppression
- Optional Setpoint Programming Capability
- PID, Cascade, Split Output, DIAT, and On/Off Control Strategies
- 33 Primary and 13 Support Displays
- 16 Alarm Limits
- Up to 3 Analog Outputs
- Up to 32 Calculations
- Optional Discrete I/O Configurations
- Assignable Pen Colors

▲ VRX150

Ordering Information

Order #	Description	Price
MPVRX150-2-00-000-0-0E0C00	2-Channel Video Recorder Universal Input (10.4") with CSA	
MPVRX150-6-00-000-0-0E0CD0	6-Channel Video Recorder Universal Input (10.4") with CSA and Playback PC Software	

NOTE: A wide selection of options are available for this Honeywell product. Contact Transcat for help in selecting the option codes and features to meet your requirements.

Software Options for VRX Recorders

SCF Configuration Software:

- Configure VRX 150 Recorders
- Microsoft Windows™-Based
- Fill-in-the-Blanks Configuration Entries
- Maintain Backup Records of Configurations on Disk
- Specify Unique File Names for Error-Free Installation

SDA Data Analysis Software:

- Analyze Process Data Off-Line on Your PC
- View Process Data in Horizontal and Vertical
- Maintain Separate Files for Process Data, Alarm, and Event Information
- Isolate Single-Trend Lines from a Group
- Compare Trend Files from Different Instruments on the Same Display

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