

## VRX 180 Video Recorder

The VRX 180 is a large-screen multifunctional video recorder. In addition to data acquisition and recording, it can also perform loop control, program profile execution and compute advanced math calculations. By integrating several functions in a single device, the VRX 180 offers exceptional value of ownership. The VRX 180 features up to 48 input channels, graphical display versatility and large-capacity electronic data storage.

Its rugged construction and modular design make the VRX 180 adaptable to nearly any industrial application.

### Advantages of Paperless Recording

- **Simple to use**—Dedicated display keys and full-screen menus allow operators to quickly access and interpret information.
- **Improved decision making**—On-line data analysis allows fast operator response during process upsets.
- **Meets documentation requirements**—Permanent archived record of process and configuration data can be stored to disk and easily replayed on the recorder or a personal computer using SDA software.
- **Reduced operating and maintenance costs**—Eliminate consumables such as chart paper and pens, and experience increased reliability because the recorder performs no mechanical movements.

### Operator Interface

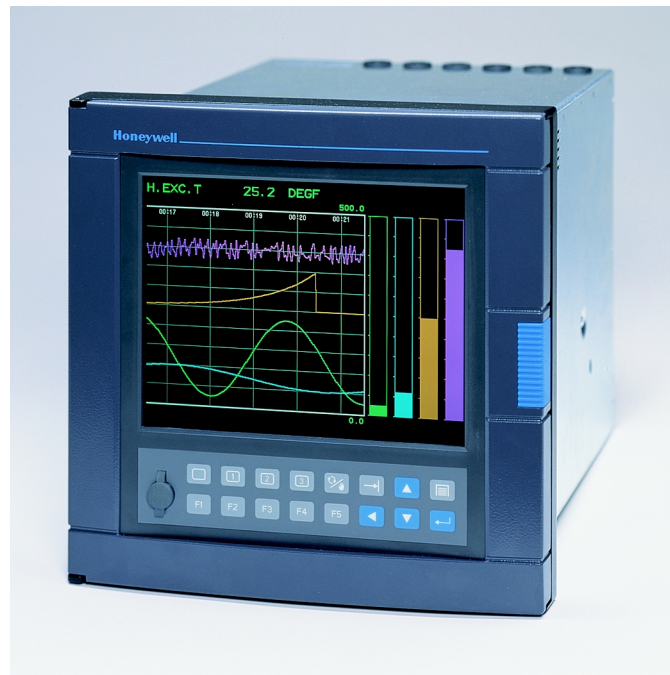
The VRX 180 features a large, active-matrix LCD screen that displays up to 16 user-selectable colors. Its high resolution (640 x 480 pixels) and brightness produces an exceptionally sharp view of the graphical displays and numerical data. The front door of the VRX 180 opens to allow access to the 3.5-inch floppy drive.

A mini DIN connector on the front door can be used for connecting a PC keyboard or a barcode reader for easy labelling of parameters. Twelve panel keys control all functions of the instrument, including configuration.

Live trend displays are available in vertical and horizontal formats, each supporting up to 12 points. Each trend is supported by a RAM-resident trend buffer so that it may be independent of the stored data. This allows you to view more points than you need to store, saving the storage space for critical data. The trend buffer also allows you to view historical data on line. Other displays include bargraphs, unit data and panel formats.

### Main Features

- 10.4-inch (264-mm) diagonal full-color LCD display
- 3.5-inch floppy disk drive for data storage. (120Mb compatible 1.44Mb)
- PC data analysis / configuration software
- Up to 48 analog inputs
- Up to 8 analog outputs
- Up to 36 discrete input/outputs
- 96 alarm limits
- Up to 48 totalizers
- Math calculations—24 standard/ 64 optional
- RS485 Modbus\* communications
- 33 primary displays and 13 support display types available
- Up to 8 control loops
- Up to 4 setpoint programmers
- PID, cascade, split output, and On/Off control strategies
- Fuzzy logic setpoint overshoot suppression capability
- Retains data during power loss
- Custom input linearization
- On-line data analysis—scroll, zoom, point detail, find
- CE Mark compliant
- ASCII barcode reader interface



## Condensed Specifications:

Universal Analog Inputs	Up to 48 inputs – mV, V, mA, TC, RTD, and pyrometer
Accuracy	Factory calibration 0.1%, field calibration 0.05%
Resolution	15 bits
Universal Power Supply	85 to 265 VAC, 50/60 Hz, 24 VDC supply for transmitters
Display Formats	Vertical, horizontal, bar, digital, 33 primary and 13 support displays
Data Storage Medium	3.5-inch floppy disk – 120Mb with ability to use 1.44Mb floppy disks
Alarms	96 alarm limits, up to 36 outputs
Scanning Time	500 msec for 12 inputs, 1 sec for 20 inputs, 3 sec for 48 inputs
Timebase/Logging	Logging rate: .25 seconds to 1 hour
Rates/Display Update	Timebase: 5 minutes to 24 hours, display update: 1 second
Configuration	Via front keys, QWERTY keyboard or SCF configuration software
Math Functions	Standard: 24 calculations using free-form math and logic Advanced: 64 calculations using standard calculation plus timers, signal select, peak picking, compare, average, rolling average, CEM, mass flow, Fo
Programmer/Controllers	Up to 4 programmers and 8 controllers
Setpoint Profiles	96 setpoint profiles stored in memory – 63 segments, 16 events per segment
Communications	RS422/485; MODBUS RTU protocol
CE Mark Compliant	Full conformity with CE directives

## Product Dimensions

Front Face	(HxW) 12.21 x 12.48 inches (310 x 317mm)
Depth	12.6 inches (320 mm)
Weight	33lbs (14kg) average
Panel Cut-out	10.95 x 10.95 inches (278 x 278 mm)

## Warranty and Technical Assistance

The VRX 180 carries a two-year warranty and is backed by the largest service and support network in the industry.

For more information, please call 1-800-343-0228, visit our Web site at <http://www.iac.honeywell.com>, or contact your local Honeywell stocking representative.

*Honeywell provides a complete line of temperature sensors including thermocouples, RTDs, and non-contact sensors that are compatible with the VRX 180 and other industrial control products.*

*\*Modbus is a trademark of Modicon*

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### Industrial Automation and Control

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