

# VRX 150 Video Recorder

## *Robust Recording and Data Management*

The VRX 150 recorder is a large-screen multipoint video recorder that does more than just strip chart recording. It offers display versatility, flexible data storage, dual loop control, and advanced math functions for a variety of applications. This integration of several functions within the same instrument eliminates the need for multiple devices and reduces installation costs.

### 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.
- Meet documentation requirements – Permanent archived record of process and configuration data can be stored to disk and easily replayed on any VRX 150 recorder or personal computer using SDA software.
- Reduced operating and maintenance costs – Reduce maintenance costs, eliminate consumables, and increase reliability since no mechanical movements exist.

### Lower Cost of Ownership

The VRX 150 offers significant improvements over traditional paper recorders. Its inexpensive storage media and full-color LCD display reduce the cost of maintenance and consumables such as chart paper and pens. Reliability is increased since there is no vulnerable print mechanism or other mechanical parts. Multiple replay options provide quick information access with no paper to handle.

### Innovative Displays – Better Process Insight

Live trend displays are available in vertical and horizontal formats, each supporting up to six 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.



*The VRX 150 Video Recorder is a large-screen robust recording and data management device integrating traditional recording with advanced control functionality.*

### Main Features

- 264 mm (10.4 inch) diagonal full-color LCD display
- 3.5 inch floppy disk drive for data storage
- PC data analysis/configuration software
- 1-4 programmer/controllers
- 96 setpoint profile storage
- Up to 12 analog inputs
- Up to 4 analog outputs
- Up to 32 discrete input/outputs
- 24VDC transmitter power supply (90 mA max.)
- 16 alarm limits
- Up to 12 totalizers
- Math capabilities – 8 standard/32 optional
- RS485 communications (Modbus\*)
- 25 primary and 13 support display types available
- PID, cascade, split output, and On/Off control strategies
- Fuzzy Logic setpoint overshoot suppression capability
- Retain data during power loss without batteries
- Custom input linearization
- On-line data analysis – scroll, zoom, point detail, find
- CE Mark compliant
- ASCII barcode reader interface

### Warranty and Technical Assistance

The VRX 150 carries a two-year warranty, backed by unmatched service and support capability, and a toll-free 800 number for technical assistance.

For more information, call 1-800-288-7491, visit our Web Site at <http://www.iac.honeywell.com>, or contact your local Honeywell distributor.

*Honeywell provides a complete line of temperature sensors including thermocouples, RTDs, and non-contact sensors that are compatible with the VRX 150 and other industrial control products.*

\*Modbus is a trademark of Modicon.

## Condensed Specifications

Standard Inputs	Up to 12 inputs – mV, V, mA, TC, and Pyrometer
Universal Analog Inputs	Up to 6 inputs – mV, V, mA, TC, RTD, and Pyrometer
Accuracy	±.02% linear inputs, ±.1% typical for others
Resolution	15 bits
Universal Power Supply	85 to 265 VAC, 50/60 Hz, 24 VDC supply for transmitters (90 ma. max.)
Display Formats	Vertical, horizontal, bar, digital, 25 primary and 13 support
Data Storage Medium	3.5 inch floppy disk
Alarms	16 alarm limits, up to 8 outputs
Sampling Time	250 ms/2 inputs, 500 ms/4 or 6 inputs, 1 second/8 or 12 inputs
Display Timebase/Update	Timebase: 5 minutes to 4 hours, Display update: 1 second
Logging Rates	Logging rate: .25 seconds to 1 hour
Configuration	Via front keys, QWERTY keyboard or SCF configuration software
Math Functions	Standard: 8 calculations using free-form math and logic Advanced: 32 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 4 controllers
Set Point Profiles	96 setpoint profiles stored in memory – 63 segments, 16 events
Communications	RS422/485; Honeywell binary protocol/MODBUS RTU protocol
CE Mark Compliant	Full conformity with CE directives

## Product Dimensions

Front Face	(279mm x 295mm) (HxW) (10.98 inches x 11.61 inches)
Depth	295 mm (11.6 inches)
Weight	5.0 kg (11 lbs.)
Panel Cutout	138 x 138 mm (5.4 x 5.4 inches)

Distributor:

**Honeywell**

### Industrial Automation and Control

Honeywell Inc.  
<http://www.iac.honeywell.com>

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