

# Recording, Data Management & Control

Honeywell provides a comprehensive portfolio of electronic data recorders for viewing, storing and managing process data. These recorders, combined with powerful software capabilities and our extensive portfolio of control products, make Honeywell uniquely qualified to provide the solutions you need to manage your process.

Whether your application requires multiple inputs, fast scan rates, customized displays, storage flexibility, data security (complies with 21 CFR part 11), networking and communications capabilities, process control or setpoint profile control, Honeywell has the solution with our complete line-up of electronic data recorders.

Honeywell recorders are versatile and easy to use; they provide the best total value of any recorder on the market. Honeywell quality assures many years of reliable service and our global presence means that you will obtain our support regardless of your plant location.

## Honeywell's VRX Recorder/Controller

Honeywell's VRX 100, 150 and 180 offer display versatility, flexible data storage and set up, single or multi-loop control, set point programming capability and advanced math functions to handle a wide variety of applications. They can provide integrated control, data presentation and data archiving solutions in a single device. Function block programming, logic, math and control functions allow you to

solve many complex control problems. The combined functions of these recorder/controllers make them the most versatile solution for recording, control and data management available to industry today.

### RECORDER FEATURES INCLUDE:

- PID control capability
- Fuzzy overshoot suppression tuning capability
- Setpoint programming capability
- Up to 48 analog inputs
- Up to 8 control outputs
- Up to 36 discrete inputs/outputs

### ADVANTAGES OF PAPERLESS RECORDING

**Easy 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 records of process and configuration data can be stored to disk and easily replayed on the recorder or personal computer using the data analysis software.

**Reduced Operating and Maintenance Costs** - Reduced maintenance costs, elimination of consumable pens and paper and increased reliability since mechanical print assemblies have been eliminated.

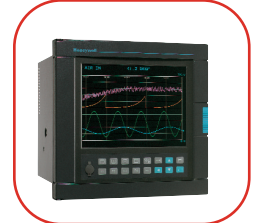
**Reduced Cost of Ownership** - Paperless recorders offer significant improvements over traditional paper recorders. Their inexpensive storage media and full-color LCD display reduces operating costs and improves data analysis. The lack of vulnerable print mechanisms and other mechanical parts improves reliability.



VRX100



VRX150



VRX180

	VRX100	VRX150	VRX180
<b>Displays</b>	5.5" LCD Color	10.4" LCD Color	10.4" LCD Color
<b>Analog Inputs</b>	2,4,6,8,12	2,4,6,8,12	4,8,12 . . . 48
<b>Calculation Blocks</b>	32	32	64
<b>Control</b>	4 loops	4 loops	8 loops
<b>Data Storage</b>	1.44mB or 120mB floppy	1.44mB or 120mB floppy	120mB floppy
<b>Communications</b>	Modbus	Modbus	Modbus
<b>Math</b>	Yes	Yes	Yes
<b>Reference Accuracy</b>	±.1%	±.1%	±.05%
<b>Configuration</b>	PC/Keyboard	PC/Keyboard	PC/Keyboard

# recording & data management

## Honeywell's "-trend" Line



**Teletrend V5**



**Minitrend V5**

<b>Displays</b>	5.5" Color TFT	5.5" Color TFT
<b>Analog Inputs</b>	2,4,6,8	4,6,8,12,16
<b>Data Storage</b>	1.44mB Floppy	120mB Floppy, Flash card
<b>Sample Rate</b>	125ms (std. inputs)	20ms
<b>Digital I/O</b>	Up to 8DI/8DO	Up to 16DI/16DO
<b>Communications</b>	RS-485 ASCII or Modbus RTU	RS-485 ASCII, Modbus, Ethernet
<b>Math</b>	60 character free form math	200 character free form math
<b>Reference Accuracy</b>	0.5% (std. inputs)	0.5% (std. inputs)
<b>Configuration</b>	PC or front panel	PC or front panel
<b>Custom Screens</b>	No	Yes

The Multitrend, Minitrend, Teletrend and Circitrend - and their application software programs - are among the most flexible, low-cost and easy-to-use products available to industry today.

### RECORDER FEATURES INCLUDE:

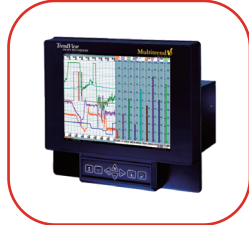
- Customization of the displays with the unique *Screen Designer Software*
- Data storage capacity, security (complies with 21 CFR part 11) and flexibility along with fuzzy logging
- Faster scan times - 20 msec
- Communications capability with World Wide Web, Ethernet, FTP, E-mail and other protocols
- Networking capability and real time archiving with *Trend Manager* and *Trend Server* software packages



**Multitrend Plus V5**



**Circitrend V5**



**Multitrend V5**

<b>Displays</b>	12.1" Color TFT	10.4" Color TFT	10.4" Color TFT
<b>Analog Inputs</b>	8,12,16,24,32	2,4,6,8	6,8
<b>Data Storage</b>	120mB Floppy, Flash card	1.44mB Floppy	1.44mB Floppy
<b>Sample Rate</b>	20ms	250ms (std. inputs)	125ms (std. inputs)
<b>Digital I/O</b>	Up to 32DI/32DO	Up to 8DI/8DO	Up to 8DI/8DO
<b>Communications</b>	RS-485 ASCII, Modbus, Ethernet	RS-485 ASCII or Modbus RTU	RS-485 ASCII or Modbus RTU
<b>Math</b>	200 character free form math	60 character free form math	60 character free form math
<b>Reference Accuracy</b>	0.5% (std. inputs)	0.5% (std. inputs)	0.5% (std. inputs)
<b>Configuration</b>	PC or front panel	PC or front panel	PC or front panel
<b>Custom Screens</b>	Yes	No	No

### CONFORMS TO REGULATORY REQUIREMENTS

Electronic data acquisition instruments are the perfect solution for applications within the Power, Water Treatment, Thermal Processing, Food & Beverage, Pharmaceutical/Biotech, and Manufacturing industries. U.S. regulatory agencies have accepted electronic data storage. Title 21 CFR Part 11 of Federal Regulatory Affairs details the acceptability of electronic records.

## Honeywell's TrendManager Software Suite

The *TrendManager Software Suite* includes the standard **Trendviewer** software package; the **Trendmanager Pro** advanced data analysis and archiving software; the **Trendserver Pro** fully network aware software for communications with recorders; and the **Screen Designer** software for creating customized screen layouts. This low-cost, flexible, easy-to-use software suite sets the "-trend" recorders apart from all the others!

### Trendviewer

- View, graph and print stored data
- Export data files in CSV format
- Print out data and configurations

**Trendmanager Pro** — includes all of the capabilities of Trendviewer, plus:

- Full configuration of Mini/Multi/Tele/CirciTrend recorders
- Archive data on integral secure database
- E-mail configurations and data
- Event systems analysis

**Trendserver Pro** — includes all of the capabilities of Trendmanager Pro, plus:

- FTP (File Transfer Protocol)/Ethernet connection (TCP/IP)
- Web browser access
- Audit trail manager and multi-level password system complies with 21 CFR part 11
- Distribution of data over LAN (Local Access Network)
- Export using OPC links

### Screen Designer

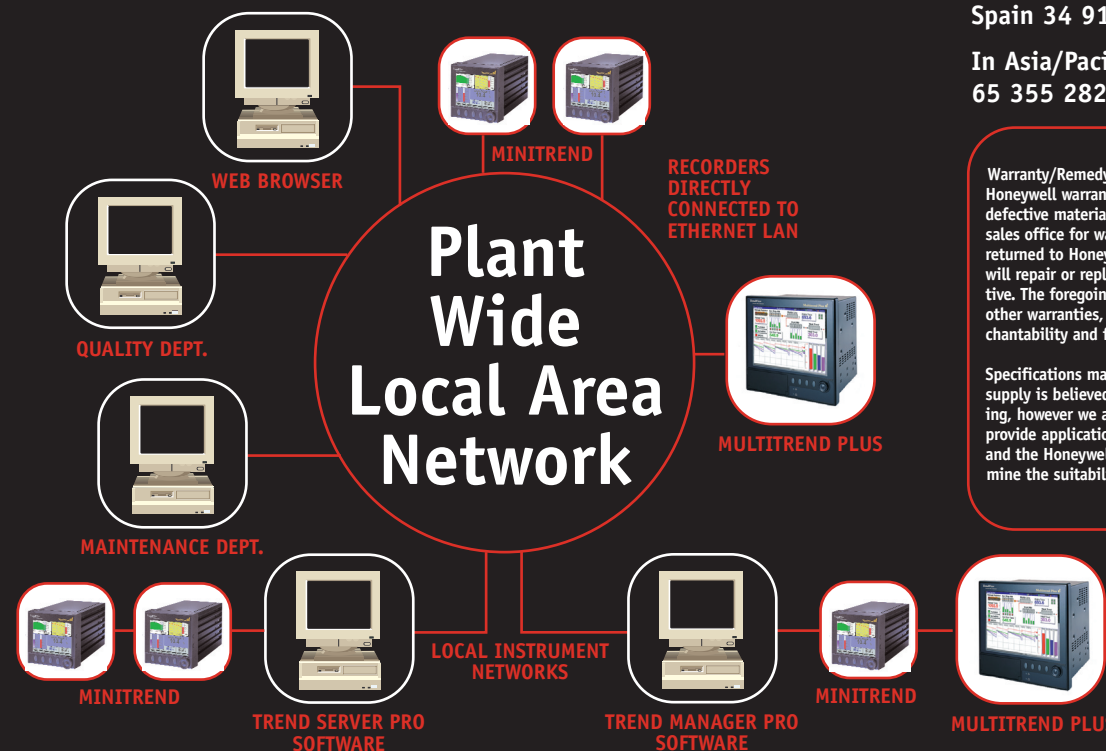
- Total design flexibility to produce the ultimate in customized screen layouts
- Screens that are sure to meet operators' needs
- Design the screen that will best monitor your process
- Totally unique to the marketplace

For more information on Honeywell's complete line of paperless recorders, contact your Honeywell representative, call 1-800-343-0228 (in the U.S. and Canada) or visit our website at [www.honeywell.com/sensing](http://www.honeywell.com/sensing).

In Europe, contact Honeywell at the following telephone numbers:

United Kingdom 44 118 906 2600  
 Germany 49 69 8064 444  
 France 33 1 60 19 80 00  
 Italy 39 02 92 14 61  
 Spain 34 91 31 3 61 00

In Asia/Pacific, contact Honeywell at 65 355 2828.



### Warranty/Remedy

Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Contact your local sales office for warranty information. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace without charge those items it finds defective. The foregoing is Buyer's sole remedy and is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose.

Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing, however we assume no responsibility for its use. While we provide application assistance personally, through our literature and the Honeywell web site, it is up to the customer to determine the suitability of the product in the application.

**Honeywell**

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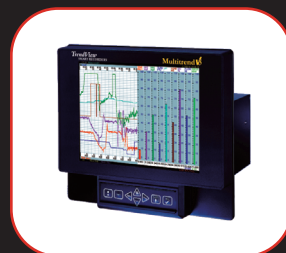
[www.honeywell.com/sensing](http://www.honeywell.com/sensing)

Sensing and Control

# Electronic data acquisition



A COMPREHENSIVE PORTFOLIO FOR ALL PAPERLESS RECORDING NEEDS



VRX 100

VRX 150

VRX 180

Teletrend V5

Minitrend V5

Multitrend V5

Multitrend Plus V5

Circuitrend V5

TrendManager Software Suite

**PLUS!**  
**TrendManager**  
**Software Suite!**

