## Precise and reliable

#### **Paperless Recording to Match Your** Application

Process measurements are essential in virtually every industrial process. Precise and reliable measurements provide many significant benefits:

- Consistent product quality
- Compliance monitoring
- Improved equipment monitoring
- Process documentation

Improved process efficiency

Process savings

Honeywell offers a broad product portfolio of data acquisition products to address most industrial recording needs.

Direct sensor connections, Ethernet communications, customizable displays, advanced math functions and a wide selection of data storage choices make it easy to set up, use and analyze your process data. Your operation runs smoothly, safely and efficiently. Data acquisition products are available worldwide from authorized Honeywell representatives.



### **Typical Applications:**

- Drying ovens
- Environmental monitoring
- Fermentation processes
- Flow monitoring
- Freeze drying
- Retorts & cooking processes
- Sintering furnaces
- Sterilization
- Heat treating
- Power monitoring

### Industries:

- Biotech Chemical
- Food processing
- Industrial heating
- Manufactured goods
- Metals processing
- Pharmaceutical
- Power generation
- Semiconductor
- Water and waste



#### eZtrend QXe Minitrend QX Multitrend SX Chart Size/Screen Size 127 mm (5.0 in) 140 mm (5.5 in) 307 mm (12.1 in) **Number of Inputs** Up to 12 Up to 16 Up to 48 **Input Signal Type** Thermocouple, RTD, Pulse, Thermocouple, RTD, Pulse, Thermocouple, RTD, Pulse, mA, mV, V, Ohms mA, mV, V, Ohms mA, mV, V, Ohms 100/200/500 ms 20 ms (linear input)\* / 100/200/500 ms Scan Rate 20 ms (linear input)\* / 100/200/500 ms Chart Speed/Display Rate 1 to 6000 mm/hr (0.04 to 240 in/hr) 1 to 6000 mm/hr (0.04 to 240 in/hr) 1 to 6000 mm/hr (0.04 to 240 in/hr) 0.1% Typical - T/C 0.1% Typical - T/C 0.1% Typical - T/C Screen Design\* (Custom Screens) Alarm Outputs\* / Alarm SP Up to 8 / 6 per pen Up to 16 / 6 per pen Up to 48 / 6 per pen Digital Inputs\* Up to 8 Up to 16 Up to 48 **Auxiliary Output\*** Up to 4 Up to 8 Transmitter Power\* Yes Yes Totalizer(s), Counters Yes Yes / No Yes/Yes Yes/Yes Math Functions\* / Math Scripts\* Ethernet / RS485 / OPC Server\* Communications Ethernet / RS485\* Ethernet / RS485 / OPC Server\* Front Face Protection Rating IP54 / NEMA 3. IP66 / NEMA 4X\* IP54 / NEMA 3. IP66 / NEMA 4X\* IP54 / NEMA 3. IP66 / NEMA 4X\* Case Size (W x H x D) 144 x 144 x 200 mm 144 x 144 x 200 mm 300 x 300 x 200 mm (5.7 x 5.7 x 7.9 in) (5.7 x 5.7 x 7.9 in) (11.8 x 11.8 x 7.9 in) 138 x 138 mm Cutout Size (W x H) 138 x 138 mm 281 x 281 mm (5.4 x 5.4 in) (5.4 x 5.4 in) (11.06 x 11.06 in) 90 to 250 Vac, 90 to 250 Vac, 90 to 250 Vac, **Instrument Power** 20-30 Vdc / 20-25 Vac\* 20-55 Vdc / 20-30 Vac\* 20-55 Vdc / 20-30 Vac\* CE, UL / CSA\* CE, UL / CSA\*, FM CL 1 Div 2\* CE, UL / CSA\*, FM CL 1 Div 2\* Approval Color LCD (Active TFT) QVGA Color LCD (Active TFT) QVGA Color LCD (Active TFT) SVGA Display Data Storage USB memory key Compact flash / USB memory key Compact flash / USB memory key **Chart Type** Electronic Media Electronic media Electronic media Portable Case HealthWatch/Maintenance Yes\* Yes\* Yes\* Yes\* **Remote Viewing**

<sup>\*</sup>Optional



Honeywell offers a complete portfolio of products and solutions for process and machine control applications, including controllers, sors, and analytical instruments. To learn more

Canada: 1-800-461-0013

Germany: 49 69 8064-336

43-TV-58-23 September 2006

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Spain: 34 91313.61.00

about these offerings and how they can help your organization achieve breakthrough results, contact your local Honeywell representative, or contact us at the following phone numbers.

UK: 44 1344 655251 Latin America: 1-305-805-8188 France: 33 1 60 19 80 75 Italy: 39 02 9214 6503 Asia/Pacific: 65 8355 2828

U.S.A.: 1-800-343-0228

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 merchantability and fitness for a particular purpose.

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### **Paperless Recorders & Data Acquisition Solutions**



SEE, STORE, SEND DATA SECURELY

## **Honeywell Solutions for Data Acquisition and Batch Recording**

#### **Honeywell Process Solutions**

Honeywell International Inc. 2500 West Union Hills Drive Phoenix, AZ 85027 Tel: 800-343-0228 www.honeywell.com

Honeywell

Honeywell

## See, store, send data securely

#### The X-Series Family of Recorders Transform Your Data Into Meaningful Process Information

Experience the flexibility, security and networking capabilities of Honeywell's X-Series paperless recorders. The eZtrend QXe, Minitrend QX and Multitrend SX recorders feature easy configuration, remote viewing and control, touch-screen navigation, high-capacity storage, flexible screen setup, diagnostics, software support and more.

#### Flexibility

- Ease of use achieved with informational graphics and touch screen displays
- Personal delivery of process data at the recorder by user-developed customizable displays
- Batch recording or continuous data
- Independent storage rates assignable to each pen
- A "credit management system" provides flexibility to select and manage the recorder's firmware features
- Internal math functionality is supported by full math with an additional powerful math scripting language
- Multiple data storage: on-board non-volatile flash, USB flash storage ports, removable compact flash port
- Event marker system to initiate actions using alarms, digital inputs, totalizers and other causes to create effects such as start/stop/reset functions or to cause state changes



#### Security

- FDA 21CFR Part 11 compliant
- Password management system for up to 50 different users with four levels of protection plus an Administrator
- Encrypted secure data file protection, which includes the recorder setup information
- Audit trail of actions
- Diagnostics, Life Record and HealthWatch reporting capabilities
- Secure download and data retention
- Front and rear cover wire seal provision

#### **Data and Process Monitoring**

- Networking via Ethernet with Modbus TCP/IP
- RS485/Modbus
- Web-enabled
- Real time data acquisition
- FTP (File Transfer Protocol)
- OPC server support in recorder
- Data archived to integral database
- DHCP/Fixed addressing
- Export data to spreadsheet
- Remote viewing and control



### **Custom Displays to Exactly Suit Your Application**

The recorder menu structure is designed to allow easy navigation through each screen for fast, reliable set-up of recording, networking and data storage.

Screen displays provide an integral indicator to show the path used to get to the current screen.

Set-up is fully password protected, supporting multiple users and passwords along with an audit trail of actions.

Set-up is defined in terms of pens, not computer files, making it easy to relate process information to the recorded data.

Display versatility

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Frish

Pen 2

Pen 4

Setup Pen

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Pen 4, 0.00 - 000.00%

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6 Fresh

Screens are easily selected to view as trends, digitals, bars, a combination of these or as a custom designed screen.

This makes it easy to view the data and take action.

Select from different screens and adjust the chart speed with the touch of a finger

Quickly replay the historial data to view past events and data or use the find and zoom functions to focus on specific events.

Screen Designer software allows you to design unique display layouts for transfer to the recorder. Customized screens allow the user to create the best display to match the application needs.

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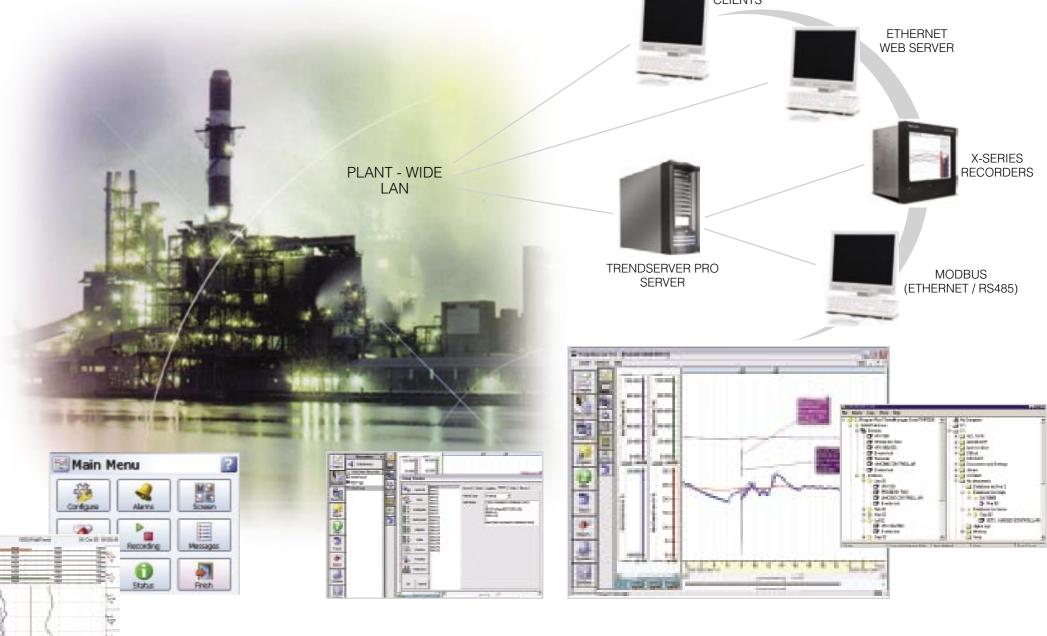
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# Analyze and communicate



# TrendManager Pro Industry leading PC based data analysis package that supports:

- Importing data from any recorder
- Archiving data
- Multi-level, multi-user passwords
- Graph, plot and export data across any recorder, pen or time frame
- Audit trails
- Configuration of recorders
- Batch recorder management

# TrendServer Pro Industry leading PC based communications software to network your recorders:

- Handles client/server architecture
- Schedule downloads of recorder data (FTP transfers)
- Remotely configure recorders
- Real time data acquisition
- Communicate via RS485 and/or Ethernet
- OPC server support
- Modbus, FTP, web browser

#### Database Management Tool Provided with TrendServer Pro

- Provides safe administration of data
- Archive, sort, move, copy or delete data in local or remote database
- Use tree structure for easy understanding of where files are located
- Data viewed by recorders or monthly archive
- Allows storage of data to secure server