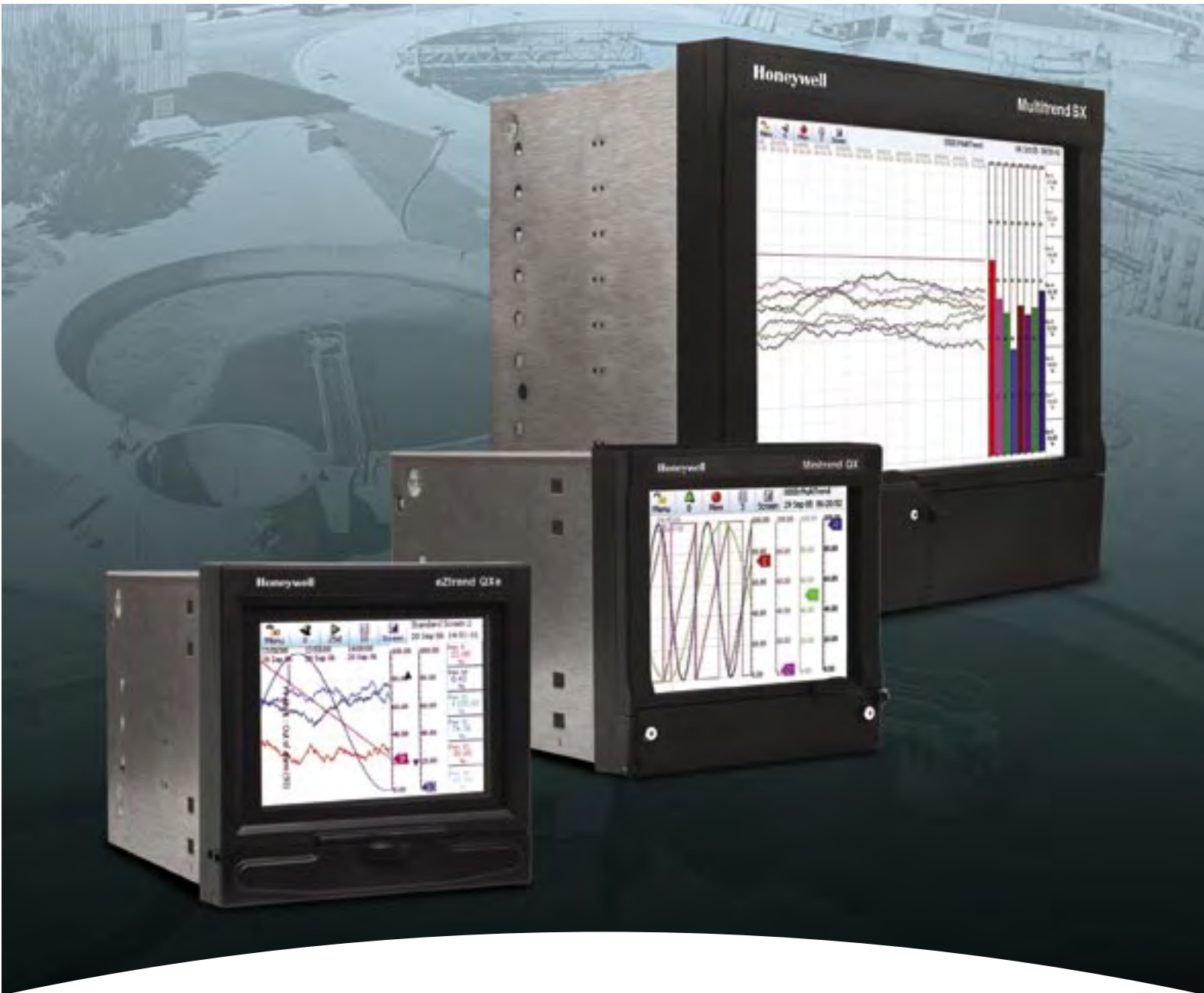


# Paperless Recorders & Data Acquisition Solutions



SEE, STORE, SEND  
DATA SECURELY

## Honeywell Solutions for Data Acquisition and Batch Recording

**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



Remote viewing and control via Web browser.



## 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.

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.

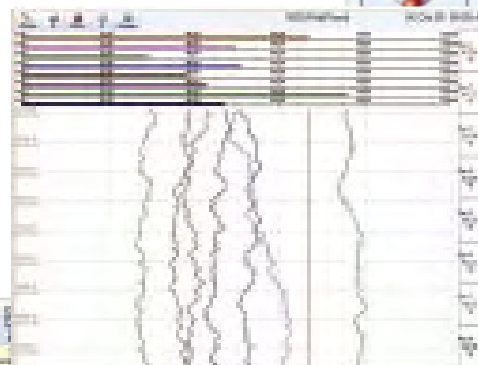
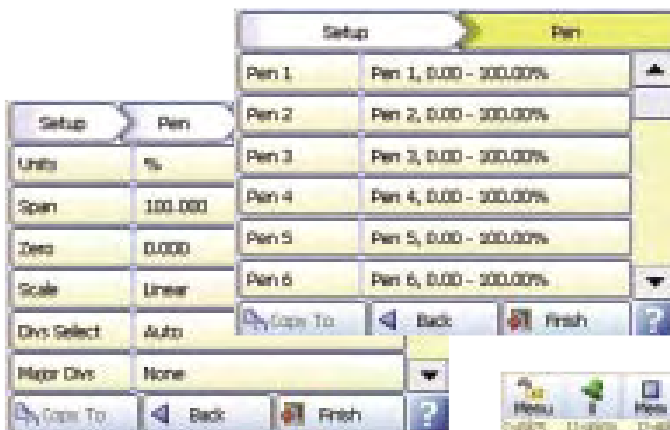
Select from different screens and adjust the chart speed with the touch of a finger.

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

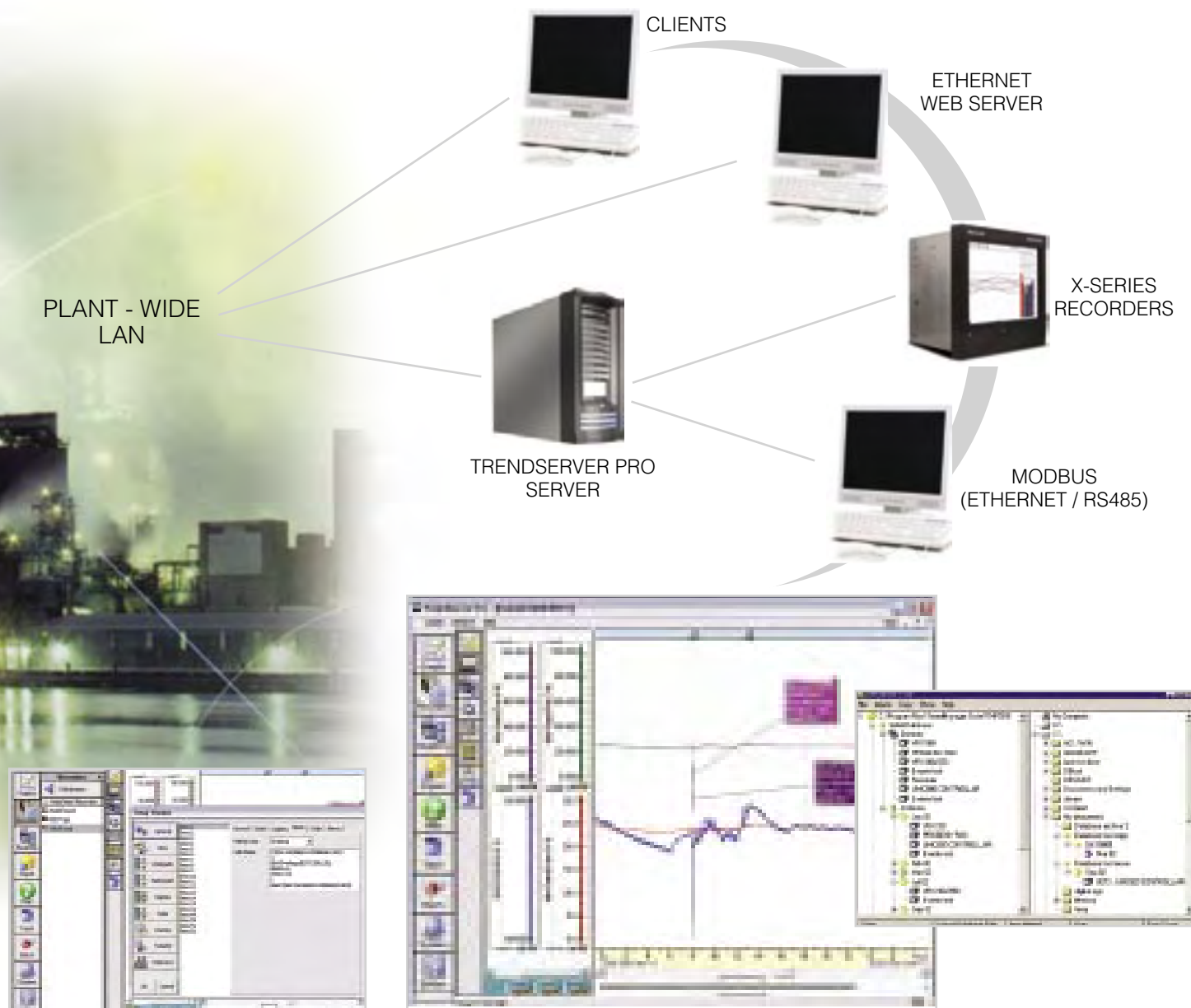
Screen Designer software allows you to design unique display layouts for transfer to the recorder. Customized screens allow the user to create the best display to match the application needs.



# Display versatility



# 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

# 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 process efficiency
- Improved equipment monitoring
- Process documentation
- 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



Features	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, mA, mV, V, Ohms	Thermocouple, RTD, Pulse, mA, mV, V, Ohms	Thermocouple, RTD, Pulse, mA, mV, V, Ohms
Scan Rate	100/200/500 ms	20 ms (linear input)* / 100/200/500 ms	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)
Accuracy	0.1% Typical – T/C	0.1% Typical - T/C	0.1% Typical - T/C
Screen Design* (Custom Screens)	No	Yes	Yes
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*	None	Up to 4	Up to 8
Transmitter Power*	Yes	Yes	Yes
Totalizer(s), Counters*	Yes	Yes	Yes
Math Functions* / Math Scripts*	Yes / No	Yes/Yes	Yes/Yes
Communications	Ethernet / RS485*	Ethernet / RS485 / OPC Server*	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 (5.7 x 5.7 x 7.9 in)	144 x 144 x 200 mm (5.7 x 5.7 x 7.9 in)	300 x 300 x 200 mm (11.8 x 11.8 x 7.9 in)
Cutout Size (W x H)	138 x 138 mm (5.4 x 5.4 in)	138 x 138 mm (5.4 x 5.4 in)	281 x 281 mm (11.06 x 11.06 in)
Instrument Power	90 to 250 Vac, 20-30 Vdc / 20-25 Vac*	90 to 250 Vac, 20-55 Vdc / 20-30 Vac*	90 to 250 Vac, 20-55 Vdc / 20-30 Vac*
Approval	CE, UL / CSA*	CE, UL / CSA*, FM CL 1 Div 2*	CE, UL / CSA*, FM CL 1 Div 2*
Display	Color LCD (Active TFT) QVGA	Color LCD (Active TFT) QVGA	Color LCD (Active TFT) SVGA
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	Yes*	Yes*	Yes*
HealthWatch/Maintenance	Yes*	Yes*	Yes*
Remote Viewing	Yes*	Yes*	Yes*

\*Optional



Honeywell offers a complete portfolio of products and solutions for process and machine control applications, including controllers, recorders, transmitters, actuators, smart sensors, and analytical instruments. To learn more 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.

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

UK: 44 1344 655251

Latin America: 1-305-805-8188

Italy: 39 02 9214 6503

Asia/Pacific: 65 8355 2828

Canada: 1-800-461-0013

Germany: 49 69 8064-336

France: 33 1 60 19 80 75

Spain: 34 91313.61.00

### 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 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 website, it is up to the customer to determine the suitability of the product in the application.

### Honeywell Process Solutions

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