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eZtrend V5 5" Display Video Recorder

Honeywell

Features

- **5" Color Display** — Makes it easy to interpret process data and take action with simple bar charts, digital values, and trends
- **Ethernet Connectivity** — Provides unlimited connectivity to LANs or the internet
- **Paperless Chart Recording** — Eliminates paper and pens and their cost and mess
- **Total Data Integrity** — Store data in secure files based on pen designations, making it easy to retrieve data based on process information rather than remembering file names
- **Up to Six Universal Analog Inputs** — Monitor process variables using a variety of sensors
- **Data Storage** — Store data on a standard 1.44 MB floppy
- **Standard DIN Mounting** — For easy replacement of existing 100mm paper chart recorders
- **Independent Display Chart Speed and Logging Rates** — Program logging rates separately from the chart display speed, letting you display and store data at rates that best suit your application
- **Real-Time Clock** — Provides accurate time stamping of logged data and events and is backed up by battery to prevent loss of time/date
- **2 MB Memory Buffer** — Backed up by battery to prevent loss of data during routine operation
- **Password Protection** — Provides multiple levels of protection to ensure compliance with 21CFR Part 11; Up to 4 levels of password protection with up to 10 different passwords; Can prevent unauthorized entry to the entire configuration or just portions of the configuration or operation
- **Fuzzy Logging** — Increases capacity by inhibiting logging when process is not changed; Compresses data to 100:1 or more, saving valuable disk space
- **Event Markers** — Mark a time-stamped event or message up to 44 characters on the recorder
- **Alarms** — Set up to 32 integral soft alarms to announce selected, out-of-limit conditions
- **CE Mark** — Conforms with 73/23/EC, Low Voltage Directive and the EMC Directive 89/336/EC as amended by 91/263/EC, 92/31/EC, 93/68/EC, and 93/97/EC

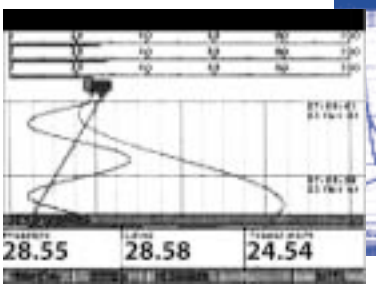
Options

- **Alarm Output** — Up to six integral SPDT relays
- **Math** — Full function math features handle up to a 200-character math expression, includes totalizer function: one totalizer per input, values of 10 digits plus exponent
- **Digital Inputs** — Six-relay alarm output option includes two digital inputs, which let you select recorder functions (such as start/stop/reset totalization, mark the chart) from a remote location through the two dry contact closures

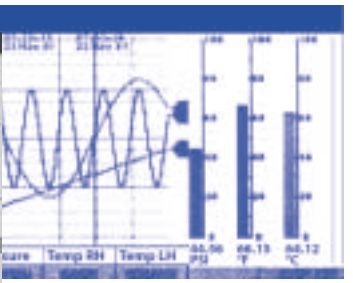
Honeywell's new eZtrend recorder provides cost-effective electronic data recording in a compact DIN-sized recorder. The recorder accepts up to six universal analog inputs and stores data on an integral, removable storage media. The data is displayed on a five-inch color LCD with wide viewing angles.

The operator interface provides easy access to the recorder menus for quick setup and replaying of the data. Data is stored in secure files under pen configurations, and, since the data is directly related to a pen, there is no need to remember file names and file structures. An Ethernet interface is provided standard to allow direct connection of the recorder to a LAN or the internet.

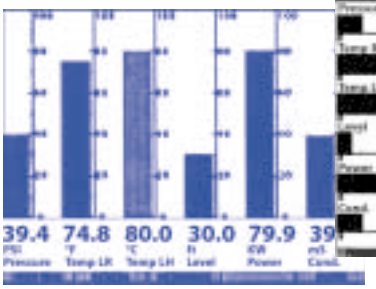
The TrendManager software suite ties your process together by letting you access the recorders over your plantwide LAN or the internet. TrendManager gives you the tools for real-time communications, data analysis, and configuration. See page 3 for more information.



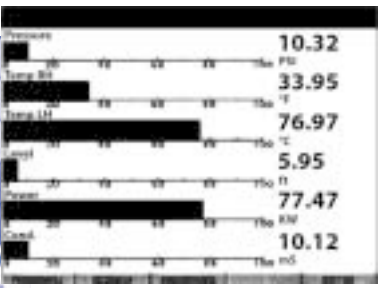
3 Vertical Trends w/Horizontal Bars



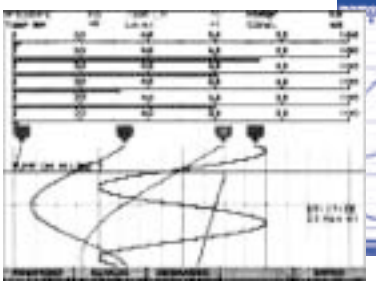
3 Horizontal Trends w/Vertical Bars



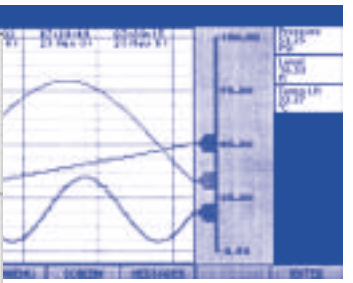
6 Vertical Bars



6 Horizontal Bars

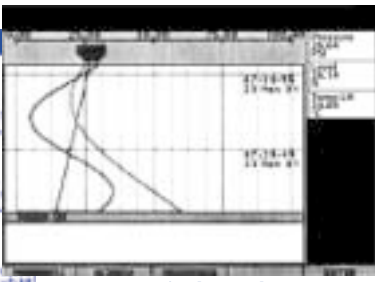


4 Vertical Trends w/Horizontal Bars



3 Horizontal Trends

Panel Meter



3 Vertical Trends

Specifications

Display: 5" color LCD; *Resolution:* Quarter VGA (320 x 240 pixels); *Display update rate:* Every 250 mS

Analog Trace Colors: Pen 1, dark red; Pen 2, blue; Pen 3, green; Pen 4, magenta; Pen 5, cyan; Pen 6, bright red

Data Storage: *Transfer data:* 1.44 MB floppy; *Internal data buffer:* 2 MB; *Internal setup:* EEPROM

Communication: Ethernet 10 base-T connector (standard) supports FTP, Trendbus (real time), web

Event Markers: Messages up to 44 characters; *Causes:* Into Alarm, Out of Alarm, Disk % Full, Totalizer Start/Stop/Reset, Dig. In High/Low, Relay High/Low, T/C Open Circuit; *Effects:* Mark Chart, Logging, Start/Stop Totalizer, Set/Clear Relay, E-Mail

Alarm Setpoints: Up to 32 integral soft alarm setpoints

Inputs: 2, 4, or 6 universal inputs; *Scan rate:* 100 mSec; *Types:* EMF (mV, V, mA), thermocouple, RTD

Accuracy: ±0.15% span

Power: Universal power supply 90-250 VAC

Options

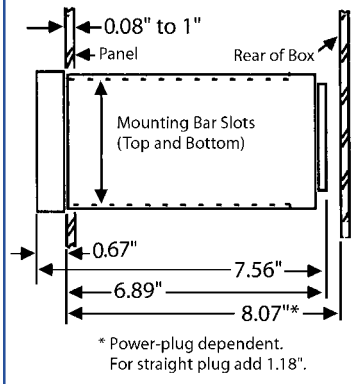
Alarm Output: 4 or 6 relays. 6 relay option includes 2 digital inputs; *Relay contact ratings:* 3 Amp, 120 VAC, with restrictive load, SPDT

Digital Input: 2 voltage-free contacts available as part of 6 relay option

Math Algorithms: Free-form math, supports 200-character expression and Boolean expressions. Supports common operators as +, -, *, /, SQRT, LOG, LN, Rolling Avg., EXP, SIN, COS, TAN, Counter, plus others.

Totalizers: Available as part of math option. One totalizer per input. Totalizer value assigned to a pen for data storage. Totalization values are 10 digits plus exponent.

Dimensions



* Power-plug dependent.
For straight plug add 1.18".

5.67" square front bezel
5.43" square panel cutout

Input Actuations

Input Type		°C Range	°F	Accuracy
Thermo-couples	K	-200 to 0 0 to 1000 1000 to 1350	-328 to 32 32 to 1832 1832 to 2462	±0.2% span ±0.15% span ±0.15% span
	R, S	0 to 300 300 to 1750	32 to 572 572 to 3092	±0.3% span ±0.2% span
	B	0 to 600 600 to 1750	32 to 1112 1182 to 3182	±0.7% span ±0.3% span
	J	-200 to 0 0 to 1190	-328 to 32 32 to 2174	±0.25% span ±0.15% span
	T	-200 to 0 0 to 400	-328 to 32 32 to 752	±0.35% span ±0.2% span
	E	-200 to 1000	32 to 1472	±0.3% span
	NIC	-200 to 0 0 to 1300	-328 to 32 32 to 2732	±0.2% span ±0.2% span
	C(W5)	0 to 2300	32 to 4172	±0.3% span
	W	1000 to 1800 1800 to 2300	1832 to 3272 3272 to 4172	±0.3% span ±0.3% span
	L	-200 to 100 100 to 900	-328 to 212 212 to 1652	±0.3% span ±0.3% span
	Chromel/Copel	-50 to 600	-74 to 1110	±0.3% span
RTDs	Pt100Ω (BS1904) Pt 200Ω CU53 Ni120	-200 to 650 -200 to 180 0 to 150 -80 to 240	-328 to 752 -328 to 752 32 to 300 -112 to 464	±0.2% span ±0.4% span ±0.9% span ±0.5% span
DC Linear	-100 to 100 mV, -200 to 200 mV -1.0 to 1.0 VDC, -10 to 10 VDC			±0.04% span

Ordering Instructions

Make one selection from each table section below. Follow the availability column down, and check any restriction letters or notes to be sure the unit you need is available. A finished catalog number looks like this: TVEZ-_-_-_-_ _ _-_-_-_ _ _ _ _ - 00

Model Selection Guide

Description		Catalog Number	Availability	Price
eZtrend V5 Electronic Data Recorder		TVEZ-	↓	$1400.00
Analog Inputs (Note 1)	2 Universal Inputs	2	•	0.00
	4 Universal Inputs	4	•	150.00
	6 Universal Inputs	5	•	300.00
Discrete Inputs/ Outputs	None	0	•	0.00
	4 Relay Outputs	4	•	200.00
	6 Relay Outputs/2 Digital Inputs (Note 2)	6	•	250.00
Firmware	None	0	•	0.00
	Event Markers	E	•	300.00
	Math and Event Markers	G	•	400.00
	Math (Totalizers)	M	•	200.00
Communi-cation Protocol	Ethernet (Real-Time Trendbus, Web, FTP)	0_ _	•	0.00
Power	90-240 VAC Universal Power	_0_	•	0.00
Future	No Transmitter Power	_ _0	•	0.00
Data Storage	1.44 MB Floppy	0	•	0.00
Case/ Mounting	Standard Panel Mounting	0_ _ _ _ _	•	0.00
	Case with Attached Handle	H_ _ _ _ _	•	100.00
	Portable Case	P_ _ _ _ _	•	450.00
Manual	English Format	_U_ _ _ _	•	0.00
Tagging (Note 3)	None	_ _0_ _ _	•	0.00
	Linen Tag	_ _L_ _ _	•	20.00
	Stainless Steel Tag	_ _S_ _ _	•	35.00
Approvals	None (CE Standard)	_ _ _0_ _	•	0.00
Certifications (Note 4)	None	_ _ _ _0_	•	0.00
	Certificate of Conformance (F3391)	_ _ _ _B_	•	25.00
	Custom Calibration Test Report	_ _ _ _C_	•	200.00
	Certificate of Conformance and Calibration Test Report	_ _ _ _E_	•	225.00
Software (Note 5)	None	_ _ _ _ _0	•	0.00
	TrendViewer	_ _ _ _ _V	•	0.00
	TrendManager Pro (Single License)	_ _ _ _ _P	•	300.00
	TrendServer Pro (Single License)	_ _ _ _ _S	•	500.00

Notes

1. Thermocouple, RTD, mV, V, and mA.
2. Provides total of six relay outputs. Use of digital input will reduce the availability of an output.
3. Customer must supply tagging information. Up to 3 lines of 22 characters each are allowed.
4. Customer must supply input actuation and range information for each input in the free-form section of the order, otherwise the calibration certificate will be based on factory default ranges.
5. Software can be ordered separately. See page 3.

Want to learn more about FDA regulations?

Visit www.lesman.com/21cfr_11