

PRODUCT BRIEF



Wireless Expandable Electronic Chart Recorder

Telescada's T-Corder *ECRX* Electronic Chart Recorder is designed for portability and use where data logging of natural gas distribution pressure, and/or gas flow is desired. It is an ideal instrument to replace old style circular paper chart recorders for the collection, archiving and future retrieval of gas distribution regulatory and hydraulic engineering data.

The T-Corder *ECRX* comes wired for expandability allowing the user to add 2-way wireless communications to fit future need. Deploy the *ECRX* in the field now as a recorder and upgrade it later for 2-way data transfer and real-time alarms.



**LOW COST
FIELD PROVEN**

**EXPANDABLE
WIRELESS COMMUNICATIONS**

**RECHARGEABLE
BATTERY POWER**

PRODUCT FEATURES

- √ 1 or 2 Intrinsically Safe Pressure Transducers
- √ 1 or 2 Flow Transmitters
- √ User Configured Sampling Intervals
- √ User Configured Recording Intervals
- √ Environmentally Friendly Long Life Sealed Lead Acid Rechargeable Battery
- √ Expandable Solar Charger
- √ Expandable 2-way Wireless Communications



T-Corder ECRX Standard



T-Corder ECRX with Expanded
Wireless Communications and Solar
Charger



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PRODUCT SPECIFICATIONS

ELECTRONICS

The T-Corder *ECRX* is a microprocessor based Remote Terminal Unit (RTU) employing the latest evolving technology in low power circuitry for optimal battery powered operation. The T-Corder *ECRX* is powered by a removable sealed lead acid rechargeable battery. The T-Corder *ECRX* motherboard is conformally coated for outdoor durability and operational longevity.

- ✓ Onboard Real-time clock for data log timestamping and time set operations
- ✓ Nonvolatile memory stores and retains operating parameters
- ✓ Designed for unattended operation
- ✓ Wired for future expansion with wireless communications

PRESSURE/VOLTAGE ANALOG INPUTS

The T-Corder *ECRX* supports five analog inputs; one is dedicated to constantly monitor battery voltage. Inputs one to four are available for external use. Each input is designed for 0-5vdc. Typically transducers monitor gas pressure, temperature and/or flow.

- ✓ Each input has four remotely configurable thresholds with hysteresis (very high, high, low, very low)
- ✓ Each input is user configurable to be critical or non-critical. When a critical threshold is exceeded, the RTU will send an alarm report to the alarm log.

GAS PRESSURE TRANSDUCER RANGES

The T-Corder *ECRX* is typically supplied with one or two intrinsically safe, stainless steel industrial pressure transducers. Transducer rated accuracy is +/-0.25% of full scale. Transducer ranges:

0-30 inH2O Column	0-100 psig
0-60inH2O Column	0-200 psig
0-5 psig	0-500 psig
0-10 psig	0-2500 psig
0-25 psig	0-5000 psig
0-50psig	

GAS FLOW TRANSMITTER

The T-Corder *ECRX* is typically supplied with one or two gas flow transmitters. Transmitters measure flow rates up to 315,000 SCFH. Transmitter rated accuracy is 98% @ 120,000 SCFH.

DATA LOGGING AND REPORTING

In its typical configuration the T-Corder *ECRX* stores its recorded data for direct uploading to Telescada's T-Link Software Utility. The T-Corder *ECRX* stores up to 26,000 values.

- ✓ 1 to 4 analog channel recording.
- ✓ Analog sampling rate selectable: 5,15, 20, 30 or 60 second intervals.
- ✓ Analog data recording rate selectable: 1, 5, 15, 30 or 60 minute intervals.
- ✓ Local alarm log maintains the most current 25 alarm records with date and time stamp. Alarm logs can be retrieved on demand.



The Telescada T-Link software utility provides local configuration, calibration and data retrieval for a network of Telescada RTUs



MECHANICAL & ENVIRONMENTAL

The T-Corder *ECRX* is designed for outdoor use and is housed in a NEMA 4/12 high impact strength, UV resistant fiberglass reinforced enclosure.

- ✓ Class 1, Division 2, Groups C & D
- ✓ Temperature - -40C to +60C
- ✓ Humidity - 5% -to 95% non-condensing
- ✓ Dimensions - 13.00"H x 11.00"W x 5.00"D
- ✓ Pre-wired for future installation of cellular modem and battery solar charger
- ✓ Rubber Feet and Carry Handle for Portability
- ✓ Vent Pipe, Wall, Pipe Mount or Ground Installation
- ✓ Weight - approximately 20 pounds with battery



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