

RECOR 325 CDR Chartless Data Recorder

The 325 CDR covers a wide range of electronic process monitoring needs; from the simplest stand alone mechanical instrument replacement to a full-blown three pressure, two temperature, two pulse recording, alarming, notifying and SCADA compatible system suitable for everything from hydrostatic testing, PUC compliance, regulator performance, low point monitoring and load surveys.

The 325 CDR is available in a variety of mounting configurations including stem, pedestal, wall, pipe and portable. Pressure sensors of inches of H₂O through 10,000 psi are available in either gauge or absolute. Pressures can be read in PSIG, Ozsi G, H₂O G, kPa G or Bar G.



Highlights

- ⇒ Up to three pressures (3) and two (2) temperatures (plus ambient)
- ⇒ Measures and records every second
- ⇒ Up to four years of primary power
- ⇒ Non-volatile memory
- ⇒ Firmware upgradeable to flash memory via PC
- ⇒ Record any external battery voltage and alarm when low/ high (such as modem power)
- ⇒ Option to remotely control pressure on the pipeline
- ⇒ Assignable pulse input and outputs (count & record input pulses &/or repeat pulses out)
- ⇒ Remote communications ready
- ⇒ Local display (selectable scroll items)
- ⇒ Massive data storage capability(IE: 4 fields hourly gives 2100 days/ 5.75 years memory)
- ⇒ Three independent high resolution event capture logs record data every second
- ⇒ "Watchlog" gives circular data recording every second for 9 hours or 6 days of 16 sec.
- ⇒ 16 fully customizable alarms with report by exception on any or all selected alarms
- ⇒ Delta alarms can identify spikes in the readings and/ or call out to pager or cell phone
- ⇒ Single PC Board design simplifies troubleshooting and repair
- ⇒ Compact packaging for easy transport and installation
- ⇒ User friendly software for configuration, calibration and data processing
- ⇒ Pressures calibratable to inches, ounces, psi or metric
- ⇒ Communication Protocol: Native Sandia and Modbus

Specifications

Physical

Housing:	Aluminum
Dimensions:	7.25" x 6.25" x 4.25"
Weight:	Approx. 5 lbs (one transducer, including battery)
Mounting:	Wall/panel, 2" pipe collar, wall/panel, stem (single pressure only), portable
Pressure Connection:	¼" NPTF
Temperature Probe:	¼" O.D. x 6" probe x 6' armor; ¼" NPTM slip fitting (others available)
Security:	Stainless steel padlock hasp
Coating:	Snow white powder coat

Electrical

Primary Power Pack:	1.5 volt; 1 each D alkaline heat shrink with fuse card (up to four years of power)
Back Up Power:	3.6 volt field replaceable lithium cell (up to one year)
Circuit:	3 volt, 40 microamp; 4" x 5" four layer PCB; 95% surface mount construction
Transducer:	10 millivolt per volt excitation; 6th order polynomial compensation
Temperature Sensor (gas and air):	Integrated circuit type
Inputs/Outputs:	1 Pulse input, 2 Pulse outputs each form A
Display:	Eight digit LCD with scroll
Communication:	Two RS 232, multidrop addressable
Scroll:	Push button switch

Performance

Accuracy:	+/- .3% of reading inclusive of linearity, hysteresis, repeatability, long term drift & temperature
Temperature:	-40°F to + 170°F
Humidity:	5 – 95 % non-condensing
Primary Power Pack Life:	Up to 48 months based on 1 second sample interval
Back Up Power Life:	Up to 12 months based on 1 second sample interval

Pressure Ranges

Available:	Inches H ₂ O, 1, 3, 6, 15, 30, 60, 100, 150, 200, 300, 500, 1000, 1500, 2000, 5000, 10000 psi (not all ranges available in absolute)
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Options

- ⇒ Internal 2400 baud modem
- ⇒ Modem surge protector
- ⇒ Cell modem complete packages available
- ⇒ Radio modem
- ⇒ Multidrop harnesses (for connecting multiple CDRs to one modem)
- ⇒ Mounting kits

Heath Consultants/Reynolds Equipment operates under a continual product improvement program and reserves the right to make improvements and/or changes without prior notification.



9030 Monroe Road, Houston, TX 77061
Tel 800-775-3424 ♦ Fax 469-429-5281
www.reynoldsequipment.com