

Quick Start Guide for the CDR 325 Pressure & Temp recorder

Congratulations for purchasing the most advanced pressure and temperature recorder ever created.

This device has been factory calibrated and is ready for measuring pressure and/ or temperature.

The Reynolds CDR is an advanced multi-parameter measuring system with many input, logging and alarm features.

The basic CDR model has:

3 ports for ratiometric or absolute devices (typically pressure transducers), 2 remote temperature ports as well as ambient temperature, a pulse counter and two pulse outputs.

Two RS232 communication ports allow for direct PC and modem communications. Additional ports for current or future expansion include, four general-purpose pulse inputs, two pulse inputs for quadrature detection (standard in LVC and XVC units) and 8 bit bus data.

As always, Reynolds leads the industry in low power, high accuracy measurement devices. A CDR will take data readings once per second and should operate on the main battery for up to 4 years between changes. The on-board backup battery insures full, uninterrupted operation for up to two additional years. The memory will retain logs and configuration for up to 10 years after the failure of the main and backup batteries.

The basic unit and most accessories are designed to give reliable, accurate performance over the full temperature range of -40C to +80C in the most demanding applications. With onboard cyclic LCD display and pushbutton, sensor data can be accessed locally without computer connection.

Applications include: pressure/ vacuum, flow, and temperature monitoring for class 1, div. 1 hydrocarbon and other chemical applications, hydrostatic testing, voltage or current monitoring for battery life indicators, CP quality monitoring, manufacturing process control and environmental monitoring.

Additionally Reynolds CDR Host software continues in a tradition of highly flexible and user-friendly software lines. Operational displays, calibration, scalability, alarms, reports, tools and security are intuitive and simple to configure and use. The large cyclic profiler memory can hold months worth of data, and the fast loggers will provide extensive data before and after a trigger event with one second granularity.

Accessories are available for many unique situations. Please call our sales or applications staff for more information.

To get started, follow the steps below:

1. Install the CDRhost software from software disk provided.
 - a. After first time running of the software- message: Verify PC time is correct (Check to remove if needed or leave to remind).
 - b. Setup "Host Setup" (Com 1, 19200, Direct, is most common).
 - c. Click "OK" to save the Host Setup.
2. Connect the communication cable from the PC to the instrument.
3. Using the CDRhost software, Select "Display/ Display1 Live Readings" to confirm connection.
4. To set up device naming conventions or enable devices: Select "Configure/ User friendly names". Customize the names and enable devices as appropriate. (If no names are chosen, default values will be used).
5. To customize site information: select "Configure/ Site Info" and enter site address in lines 1 – 3.
6. Initialize the "Profiler" to record pressures, temperatures, battery voltage etc. over time. Select: "Configure/ profiler", then select the items you wish to record from, and select the record interval from 1 to 60 minutes. To maximize the data storage time, select long record intervals and the least record types necessary. Select smaller record intervals for short term but very detailed data.

Configure the following as desired:

7. Set up the alarms. Configure/ Alarms.
8. Configure Fast logs. Configure/ Fast logs.
9. Configure Watch log. Configure/ Watch log.
10. To retrieve data or directly print a report: Select "Data", and then select the desired download or report.