



**CANADA
TECH**

SRO
Assembly and Communications



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I. Introduction Overview

The major purpose of this manual is to inform users on how to use and maintain the SRO gauge. The user will find information on assembly, maintenance and commutations.

Canada Tech offers a wide range of oilfield related memory and real time devices. Some of these include downhole memory gauges utilizing both Peizo-Resistive and quartz transducers, surface readout pressure recorders, surface pressure loggers and various products utilized by the slimline / wireline industry. These products have been developed and manufactured to obtain the highest accuracy and resolution in the industry.

A. Components and Accessories

A complete Surface Read Out (SRO) gauge order comes with the following items:

- 1 Electronics housings
- 1 SRO Interface Box
- 1 Serial Communication Cable
- 12 V power adapter
- Cable Head Adapter
- Gauge Calibration files and Certificate
- 1 SRO Program Disk

Extra Accessories may be ordered:

- Pelican Case



II. Assembly for Communication

A. Step-By-Step

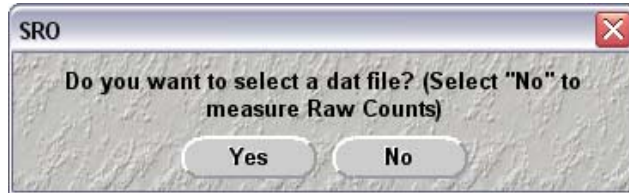
This is a step-by-step process to assemble the SRO tool string for communication.

1. Attach the SRO Tool to the *E-line Cable Head* and *Cable*. Be sure they fit snug together.
2. Hook the serial communication cable to the serial port on the computer. Attach the male end of the cable to the Canada Tech SRO Interface Box.
3. Plug in the *Cable Head Adapter* which is attached to the *E-line Cable Head* into Canada Tech *Interface Box*.
4. Insert *12V Power Adapter* into Canada Tech *Interface Box* and the other end into a 12V power source. With all components hooked up, it should look like the following.

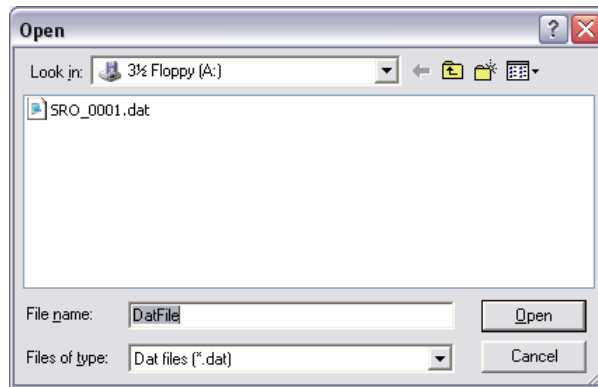


III. Communicating with SRO Software

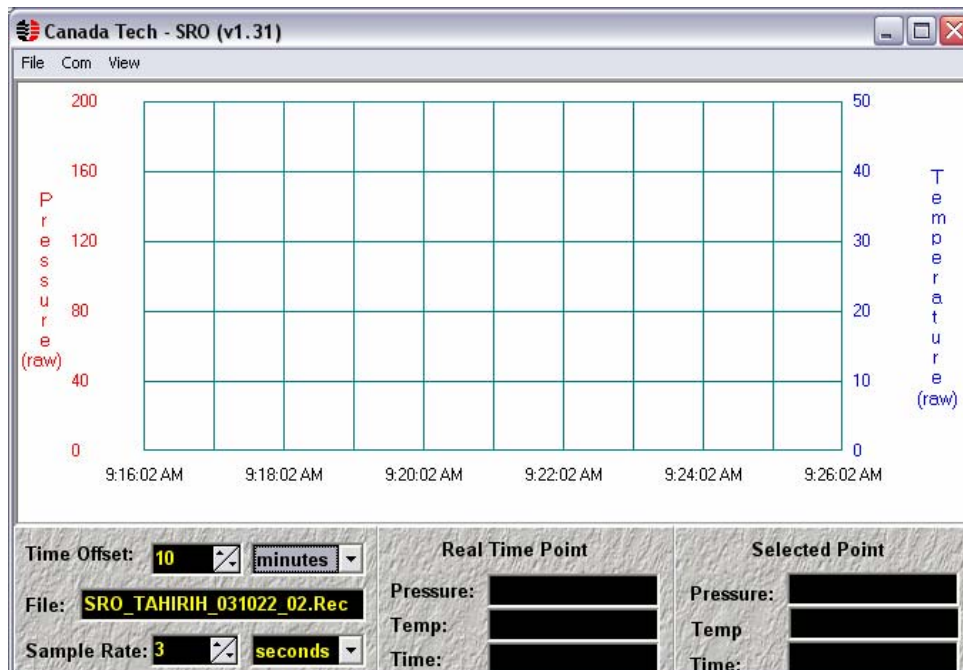
1. Install the SRO software program by copying the SRO icon to the C: drive of the computer. Double click on the icon to run the program. The following window will appear. If you would like to view the *raw counts* of the tool, or do not have the calibration disk for the gauge which contains the .dat. file needed, choose 'no' to the question, "Do you want to select a dat file? (Select "No" to measure Raw Counts). If you would like to view the *actual* pressure and temperature of the tool and do have the calibration disk for the gauge, insert the disk into the A: drive on the computer and select 'yes'



2. If 'yes' is selected, the following window will appear. Select the data file located on the calibration disk.



3. The following program window will now open.



If the sample does not start updating immediately, make sure the tool is connected properly and that it is connected to the correct Com Port. To change the Com Port, select the menu item under Com >>> Com Port and select the proper Com Port.

Real Time Point: If the tool is logging correctly the graph will begin drawing and the *Real Time Point* information will be updated with every new sample.

Selected Point: At any time you can click on the graph, the Pressure and Temperature values at that point will be displayed. The time of that sample will also be displayed.

File: When you start the program a file was opened and the samples are already being saved to this file. The name of this file is listed in the File box.

Time Offset: The total length of time that is shown on the graph is displayed here. You can alter this value at any time to adjust the time on the graph. The drop-down box allows you to enter a value in Hours or Minutes.

Print Button: Prints the screen. You can also print the graph by using the menu item under File->Print Screen.

Mini Button: Minimizes the window so that only the sample Pressure and Temperature is shown (the graph is hidden). You can also toggle between graph view and minimized view by using the menu item under View->Show Graph.

