PressureMAT™
Internal Data Logger

Part # PDKTP-DLOG

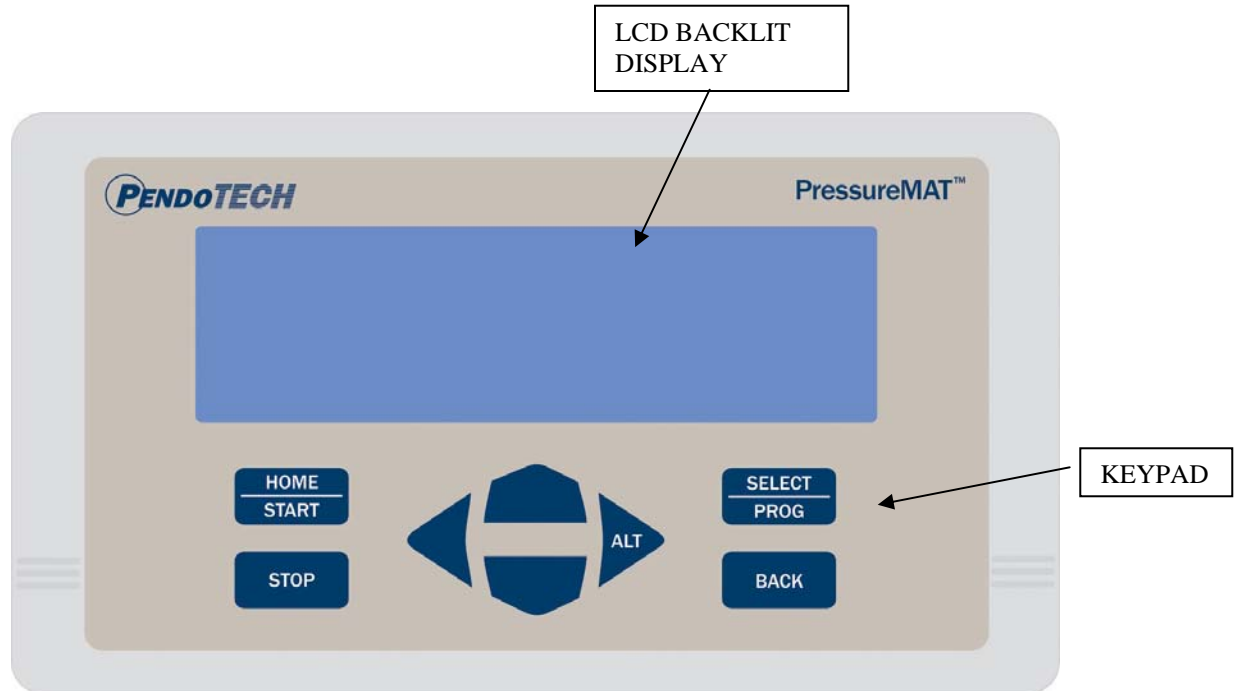**Revision 0**

PENDOTECH

Adding Value To Your Process

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User Guide

Revision 0

FRONT PANEL:

LCD BACKLIT
DISPLAY

KEYPAD

Program Menu- Used to Turn on Logging Feature for Individual Channels

To access the program menu for a pressure sensor, press the PROG key on the keypad with the desired input channel selected. After pressing the PROG key, the following screen appears with X indicating selected channel then select Input Programming

```
Channel X
      Input Viewing
      Output Viewing
>     Input Programming
      Output Programming
```

In the **Input Programming** Menu make sure the **Comm Port** setting is set to Off and then select **Log Type** with the UP/DOWN arrows then press SELECT/PROG. Use the UP/DOWN arrows to select **PV** to turn on data logging for that channel.

Global Settings Menu- Used to Start Logging and to Generate Report

To access the Global Settings menu press the BACK button three times in rapid succession. *Make sure under the **Date and Time** menu that the reports are not being generated and that the Report Start time is not set to occur in a future time. This will interfere with the data logger.* The following screen appears and use the UP/DOWN arrows to select the **Data Logging**.* HOME/START can be pressed at any time to return to the HOME screen.

```
GLOBAL SETTINGS
      Information
      System Power
      Control Service
      Communication
      Date and Time
>     Data Logging
```

* **NOTE: The date and time will be logged with the data so the Date and Time menu may be used to set the current date and time if not done so already**

The memory size of the data logger is 256K bytes and at 4 bytes (32 bits) per record and that equates to about 16,384 record sets maximum for 4 channels.

SELECT/PROG button is pressed with Data Logging selected and the follow screen appears:

```
Data Logging
      Record Count 000000
      Sample Rate  001 sec
      Send Compress Off


[<]clear [>]start [STOP]  [START][^] send
```

1- Use **Sample Rate** to select the sample frequency (sec can be changed to minutes, etc.)
2- Keep **Send Compress** to Off
3- Press the RIGHT ARROW button to start data logging
4- Press STOP button to stop data logging (once this is pressed, pressing [>] to start again will clear data and start a new log – **IT WILL NOT APPEND THE DATA TO THE PREVIOUS LOG!)**
5- The Record Count will display the number of records logged
6- Pressing *simultaneously* the START button and the UP ARROW will dump the data to a PC or other device via the RS-232 port (Winwedge and Excel software can be used to quickly capture, tabulate and graph the data. Refer Appendix C in the User Guide for setting up WinWedge and in the Excel macro in the PMAT-DOWNLOAD spreadsheet the COM port must be set to the same as the WinWedge COM port.)
7- Pressing the LEFT ARROW button will clear the data from the log and the record count will go to zero.