

PI580 ACQUISITION & RECORDING SOFTWARE

**PI580 is a complete software operating environment for Windows.
This ready to use, turnkey application has everything needed
to program and operate the 5800 and export recorded data files.**

Ready-to-Run

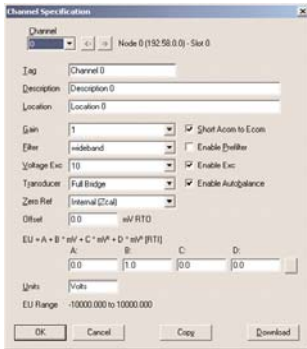
Unlike general purpose programming languages, PI580 is an application that is ready to use out of the box and specifically tailored for transducer data acquisition and recording. Versatile and easy to use, its operator interface employs menus and toolbars to program 5800 hardware and acquire and record calibration and test data.

Database Programming

Program channel and system operating parameters in a Microsoft Access or compatible database or spreadsheet. Then download the database file to program channel, group and system hardware.

Select and Name Channels

Select channels for a test from the system inventory. Assign each channel a "Tag" or name that will make measurement identification easy and enter the engineering units of measure.



PI580 Channel parameter programming screen

Menus Simplify Programming

The built-in programming menus are configured to the installed channel hardware. Menus feature drop-down selection of parameters such as excitation, gain and filter frequency for channel programming and sample rates for group profile programming.

Real Time Data Displays

Data displays are useful for monitoring channels before, during and after a test. Display types include: Tabular, system status, strip chart, bar chart, picture (bitmap), X-Y Chart, and multi-channel plot. Data is displayed in A/D counts, millivolts and engineering units.

Pre and Post Trigger

With PI580 you select the pre and post-trigger memory by entering the time period for each. Using the selected sample rates, PI580 calculates the pre-trigger and post-trigger memory sizes.

Trigger Level and Delay

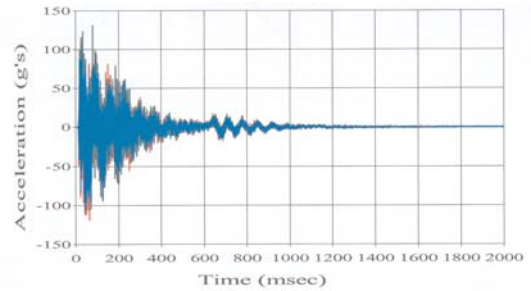
The trigger level is set for the first channel in each recording group using engineering units. Select internal or external trigger and set trigger time delay in microseconds.

Debrief Recorder

Debriefing of the data recorder can be done for a single channel or multiple channels. Operator may specify which records to debrief. PI580 exports recorded data in binary and ASCII formats compatible with display/analysis programs including Excel, DPLLOT, DADiSP and FAMOS.

Calibrate Recorded Data

PI580 supports all 5800 calibration modes with up to eight calibration steps per channel recording the calibration data to memory. It will automatically calculate the slope and offset for engineering units calibration.



Plot of exported data

ORDERING INFORMATION

RECORDER CHANNEL MODULES

- 5841 ...Transducer Recorder Module, 1 MS/s, 16-bit, 1M storage.
- 5842 ...Transducer Recorder Module, 2 MS/s, 14-bit, 1M storage.
- 5843 ...Transducer Recorder Module, 200 KS/s, 24-bit, 1M storage
- 5844 ...Transducer Recorder Module, 10 MS/s, 14-bit, 1M storage

OPTIONS

- 2M.....Increase storage to 2M samples.
- 5M.....Increase storage to 5M samples. (5841/42/44)

ENCLOSURES

- 5871 ...Data Recorder, 3 channels, battery powered, Ethernet interface (add ST for screw terminals).
- 5872 ...Data Recorder, 16 channels in two groups of eight, 12 VDC, Ethernet interface for each group.

COMMAND-MODULES

- 5881 ...Command Module, Cat.5, battery powered.
- 5882 ...Command Module, Cat 5., 12 VDC.
- 5883 ...Command Module, Optic, battery powered.

OPTIONS

- 5758 ...Fan Cover for 5872.
- 5850 ...Mounting Tray for 5871/81/83.
- 5891 ...Power Supply, 115 VAC for 5871/81/83.
- 5892 ...Power Supply, 115 VAC for 5872
- 5893 ...Uninterruptable Power Supply.

SOFTWARE

- PI580 ..Operating Software for Windows 2000/XP.