FUZYPRO Data Loggers

PRTEMP1000
Rugged Pressure & Temperature Recorder

FEATURES

- ❖ Rugged
- ❖ Reusable
- ❖ Submersible
- ❖ Programmable start time
- ❖ Real-time operation
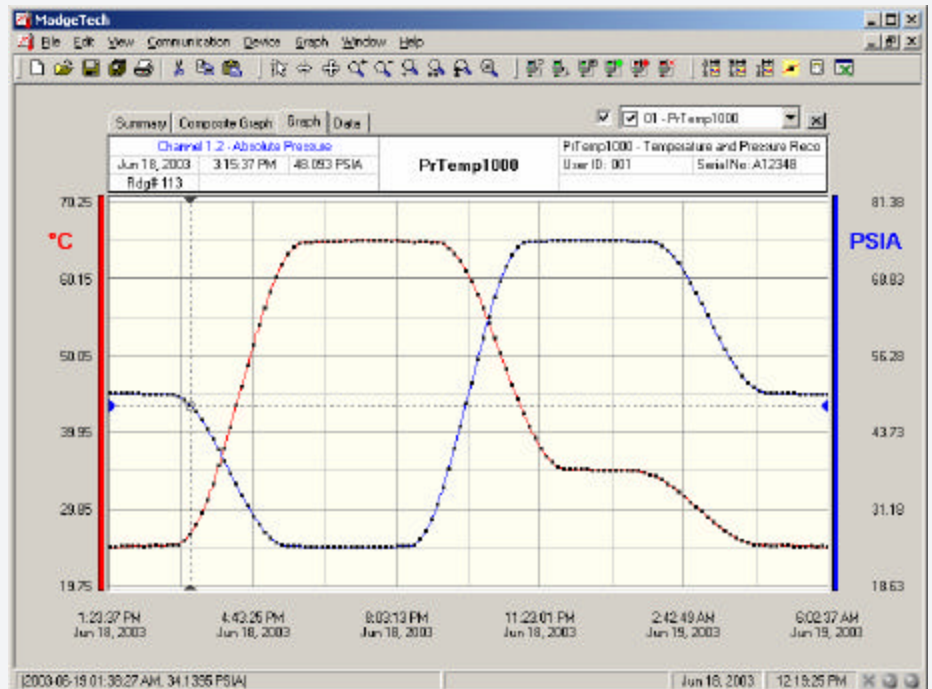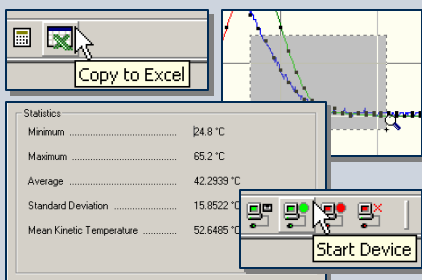- ❖ User-friendly
- ❖ Low cost

APPLICATIONS

- ❖ Pneumatics
- ❖ Process control systems
- ❖ Gas compressors
- ❖ Natural gas production
- ❖ Lubrication systems
- ❖ Chemical processing
- ❖ Pulp and paper processing
- ❖ Medical instrumentation
- ❖ Environmental studies
- ❖ Waste water treatment
- ❖ HVAC
- ❖ Refridgeration
- ❖ Replace costly strip chart recorders

The PRTEMP1000 is a battery powered, stand-alone pressure and temperature data logger. This all-in-one compact, portable, easy to use device measures and records up to 16,383 pressure and 16,383 temperature measurements. The PRTEMP1000 accommodates numerous adaptors for various pressure ranges and pipe fittings. Its real time clock ensures that all data is time and date stamped. The storage medium is non-volatile solid state memory, providing maximum data security even if the battery becomes discharged. The device can be started and stopped directly from your computer and its small size allows it to fit almost anywhere. The PRTEMP1000 makes data retrieval quick and easy. Simply plug it into an empty com port and our user-friendly software does the rest.

SOFTWARE

Fuzypro's Data Recorder Software is an easy to use Windows-based software package that allows the user to effortlessly collect, display and analyze data. A variety of powerful tools allow you to examine, export, and print professional looking data with just a click of the mouse.

Temperature Range:	-40 ºC to +125 ºC	**Reading Interval:**	1 reading every 2 seconds to 1 every 12 hours
Temperature Sensor:	Semiconductor	**Memory:**	16,383 readings per channel
Extended Temperature Range:	80 ºC to 125 ºC; 15 minutes	**Calibration:**	Digital calibration through software
Temperature Resolution:	0.1 ºC	**Calibration Date:**	Automatically recorded within device
Calibrated Accuracy:	±0.5 ºC	**Power**:	3.6V lithium battery included
		User Replaceable Battery:	1 year typical
Pressure Sensor:	Semiconductor strain gauge	**Data Format:**	Date and time stamped ºC, ºF, ºK, ºR ; PSIA(g), inches, feet, mmHg, bar, Torr, kPa,
Pressure Range:	0 to 30 PSIA, 100 psia, 300 psia, 500 psia		
Pressure Resolution:	.002 psia/g, .005psia/g, .02 psia/g, .05 psia/g	**Time Accuracy:**	±1 minute/month (at 20ºC, RS232 port not in use)
Calibrated Accuracy:	0.2 % FSR, .25 % @ 25 ºC typical	**Computer Interface:**	PC serial or RS232C COM (Interface cable required); 2,400 baud
Pressure Response Time:	0.1 ms (10% to 90% FSR)		
Repeatability:	± 0.5 % FSR; ± 0.2 % typical	**Software:**	Windows 95/98/ME/NT/2000/XP based software
		Operating Environment:	-40 ºC to +125 ºC, 0 to 99% RH
Adaptor:	1/4" male NPT or fully submersible	**Dimensions:**	1.25" x 6.3" (32 mm x 165 mm)
Start Time:	Software programmable start time and date. Up to six months in advance	**Weight:**	10 oz (285 g)
Real Time Recording:	May be used with PC to monitor and record data in real time		

PRTEMP1000 SOFTWARE FEATURES

Multiple Graphs:	Simultaneously analyze data from several units or deployments; easily switch to a single data series	**Statistics:**	Calculate averages, min, max, standard deviation, and mean kinetic temperature with the touch of a button
Real-Time Recording:	Collect and display data in real-time while continuing to log	**Export Data:**	Export data in a variety of common formats, or switch to Excel with a single click
Graphical Cursor:	One click displays readings by time, value, parameter or sample number	**Calibration:**	Fully digital calibration function automatically stores parameters in device
Data Table:	Instantly access tabular view for detailed dates, times, values, and annotations	**Logger Configuration:**	Easy set up and launch of data loggers with immediate or delayed start, preferred sample rate, and device ID
Scaling Options:	Autoscale function fits data to the screen, or allows user to manually enter their own values	**Communications:**	Automatically sets up communications port, or lets user set configuration
Formatting Options:	Change colors, line styles, plotting options, show or hide channels in an instant	**Printing:**	Automatically print graphical or tabular data