

Features

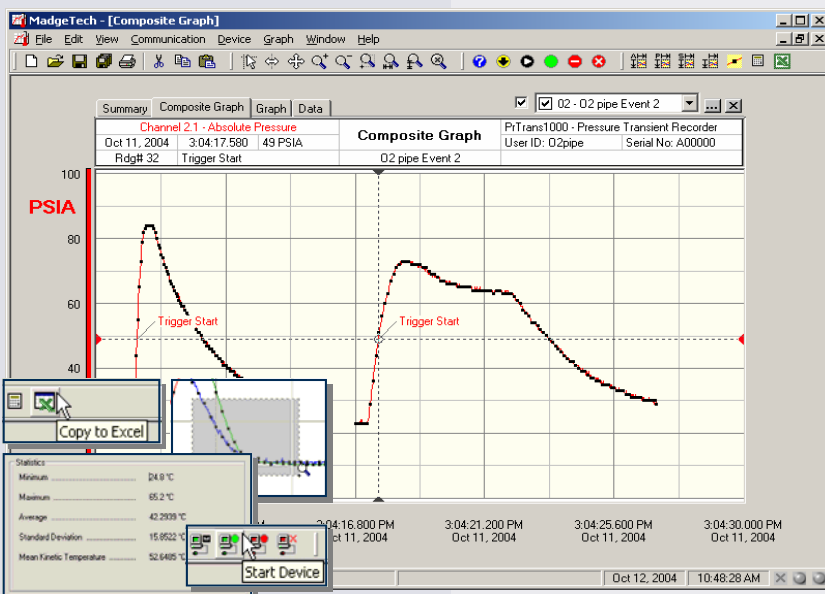
- 100 Hz operation
- Software selectable trigger modes and threshold levels
- Rugged
- Reusable
- Submersible
- Programmable start time
- 32 sample pre-trigger buffer
- 1/4" NPT pressure port

Applications

- Water hammer
- Compressors
- Pumps
- Pneumatics/hydraulics
- Process control systems
- Lubrication systems
- Chemical processing
- Pressure reducing valves
- Waste water treatment
- HVAC

It is an all too common paradox: you need to capture transient events at a high sample rate but the events of interest are erratically spread

over a long period of time. The PRTrans1000 is the pressure recorder to solve your problems. It samples up to 100Hz (10ms) but it will only trigger on pressure limits that you set beforehand. You can start the trigger on high and/or low thresholds and end the trigger after either a chosen number of samples, or when the signal crosses over your stop threshold. The device can record up to 255 events and take as many as 262,143 pressure samples. The recorder also shows up to 32 samples of "pre-trigger" data so you might learn what caused the trigger in the first place. The PRTrans1000 is a battery operated unit with a standard 1/4" NPT for easy coupling to your pressure systems. It is also completely submersible and the stainless steel sensor can measure the pressure of most common fluids and gasses. The non-volatile memory will retain your valuable data even if the user-replaceable battery becomes discharged. The PRTrans1000: your solution to the transient pressure problem.



MadgeTech Data Recorder Software displays pressure data in an easy to use graph.

The Windows®-based software package 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.

Click [MadgeTech Software](#) for more information or to download the software.

PRTRANS1000 SPECIFICATIONS*

Pressure Sensor: Semiconductor strain gauge
Pressure Range: 0 to 30, 100, 300, 500 PSIA/G;
 1000, 5000 PSIA
Pressure Resolution: 0.02, 0.1, 0.2, 0.5 PSIA/G;
 1.0, 5.0 PSIA
Calibrated Accuracy: 2%FSR, 0.25% @ 25°C typical
Pressure Response Time: 0.1ms (10 to 90%FSR)
Repeatability: ±0.5%FSR; ±0.2% typical
Adaptor: 1/4" male NPT or fully submersible

Trigger Modes: Software programmable window size
 or bi-level start/stop triggers.
Start Modes: Software programmable immediate
 start or delay start up to seven days in
 advance
Real Time Recording: May be used with PC to monitor and
 record data in real time
Memory: 262,143 samples
Number of Events: Up to 255 triggered events
Pre-trigger size: Up to 32 samples

Reading Interval: 1 reading every 10ms to 1 every second
Calibration: Digital calibration through software
Calibration Date: Automatically recorded within device
Battery Type: 3.6V lithium battery included;
user replaceable
Battery Life: 3 days continuous @ 10ms sample rate
Shelf Life: Up to 1 year when device is not in use
Data Format: Date and time stamped PSIA(G), inches, feet,
 mmHg, bar, Torr, kPa

Computer Interface: PC serial or USB (interface cable required);
 115,200 baud
Software: Windows 95/98/ME/NT/2000/XP based
 software
Operating Environment: -40°C to +80°C, 0 to 100%RH
Dimensions: 6.4" x 1.25" dia. (163mm x 32mm dia.)
Weight: 12 oz (340 g)
Material: Stainless Steel
Approvals: CE

BATTERY WARNING: RISK OF FIRE OR EXPLOSION. DO NOT RECHARGE,
 FORCE OPEN, HEAT OR DISPOSE OF IN FIRE.

SOFTWARE FEATURES

Multiple Graphs: Simultaneously analyze data from
 several units or deployments; easily
 switch to a single data series
Graphical Cursor: One click displays readings by time,
 value, parameter or sample number
Data Table: Instantly access tabular view for
 detailed dates, times, values, and
 annotations
Scaling Options: Autoscale function fits data to the
 screen, or allows user to manually
 enter their own values
Formatting Options: Change colors, line styles, plotting
 options, show or hide channels quickly

Statistics: Calculate averages, min, max, standard
 deviation, and mean kinetic temperature
 with the touch of a button
Export Data: Export data in a variety of common formats, or
 switch to Excel® with a single click
Calibration: Automatically calculate and store calibration
 parameters

Logger Configuration: Easy set up and launch of data loggers with
 immediate or delayed start, preferred sample
 rate, and device ID
Communications: Automatically sets up communications port, or
 lets user select configuration

*SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.
 SPECIFIC WARRANTY AND REMEDY LIMITATIONS APPLY.
 CALL 1-603-456-2011 OR GO TO WWW.MADGETECH.COM FOR DETAILS.

ORDERING INFORMATION

Model	Description	Price
PRTRANS1000-30	0-30PSIA(G) Pressure Recorder	Call for Pricing
PRTRANS1000-100	0-100PSIA(G) Pressure Recorder	
PRTRANS1000-300	0-300PSIA(G) Pressure Recorder	
PRTRANS1000-500	0-500PSIA(G) Pressure Recorder	
PRTRANS1000-1000	0-1000PSIA Pressure Recorder	
PRTRANS1000-5000	0-5000PSIA Pressure Recorder	
IFC110	Software, manual and RS232 interface cable	
IFC200	Software, manual and USB interface cable	
NIST	N.I.S.T. Calibration Certificate	
TL-2150	Replacement battery for PRTrans1000	

ASK ABOUT OUR OTHER DATA RECORDERS

Temperature	Pulse/Event/State
Humidity	Low Level Current
Pressure	Low Level Voltage
pH	RF Transmitters
Level	Intrinsically Safe
Shock	Spectral Vibration