PRTRANS1000

RUGGED TRANSIENT PRESSURE DATA LOGGER



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

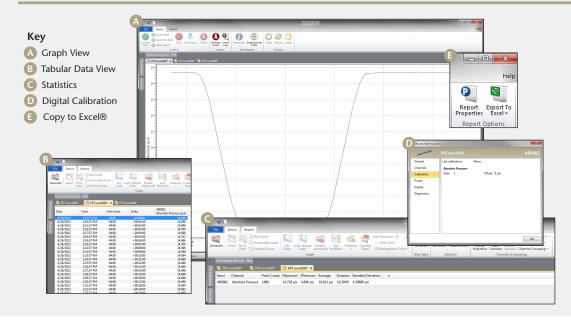
Applications

- 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 LOGGER SOFTWARE



Software Features:

- Multiple graph overlay
- Statistics
- Digital calibration
- Zoom in/ zoom out
- Lethality equations (F0, PU)
- Mean Kinetic Temperature
- Full time zone support
- Data annotation
- Min./Max./Average lines
- Data table view
- Automatic report generation
- Summary view
- Multilingual

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:	0.1 ms (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 for immediate start.	
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 10 ms up to 1 reading 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 @ 10 ms 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:	USB (interface cable required); 115,200 baud	
Software:	XP SP3/Vista/Windows 7/Windows 8	
Operating Environment:	-40 °C to +80 °C (-40 °F to +176 °F), 0 %RH to 100 %RH	
Dimensions:	6.4" x 1.25" dia. (163 mm x 32 mm dia.)	
Weight:	12 oz (340 g)	
Material:	Stainless Steel	
Approvals:	CE	

 ${\it BATTERY~WARNING:}$ RISK OF FIRE OR EXPLOSION. DO NOT RECHARGE, FORCE OPEN, HEAT OR DISPOSE OF IN FIRE.

ORDERING INFORMATION

MODEL	DESCRIPTION	PRICE (U.S.)
PRTRANS1000-30	0-30PSIA(G) Pressure Recorder	\$649.00
PRTRANS1000-100	0-100PSIA(G) Pressure Recorder	\$649.00
PRTRANS1000-300	0-300PSIA(G) Pressure Recorder	\$649.00
PRTRANS1000-500	0-500PSIA(G) Pressure Recorder	\$649.00
PRTRANS1000-1000	0-1000PSIA Pressure Recorder	\$649.00
PRTRANS1000-5000	0-5000PSIA Pressure Recorder	\$649.00
IFC200	Software, manual and USB interface cable	\$119.00
NIST	NIST Calibration Certificate	\$60.00
TLH-5902	Replacement battery for PRTrans1000	\$15.00

ASK ABOUT OUR OTHER DATA LOGGERS Shock LCD Display Pulse/Event/State Current Voltage Wireless Intrinsically Safe Spectral Vibration Motion

For Quantity Discounts call 603-456-2011 or email sales@madgetech.com

*To order the product with the NIST certificate add -CERT to the end of the part number and add \$60.00 to the price.



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