Field Instruments

Monitoring Devices

Solutions

SAVER™ 3M30

The SAVER™ 3M30 and 3M30 PLUS instruments represent the most affordable performance monitoring devices on the market. Each instrument is equipped with an internal triaxial accelerometer, capable of recording threshold triggered full-waveform events. Both instruments utilize internal rechargeable batteries, providing up to 30 days of continuous measurement, while only storing the most significant events safely and securely in non volatile memory.

SAVER™ 3M30 PLUS

The 3M30 PLUS allows the ability to internally record temperature, humidity, and atmospheric pressure (altitude) during both threshold and timer triggered sampling. The 3M30 PLUS also allows user defined sampling rate and filter frequency acquisition settings, while increasing the storage capacity for significant events.

These instruments utilize Lansmont's powerful SaverXware application softwarefor all programming, analysis, reporting and archiving of instrument activities.

SAVER™ 3M30 highlights:

- USB connectivity for communication, battery charge, and instrument power for continuous, non-interrupted installations.
- Individual LED Alarm indicators for Shock, Temperature, Humidity, and Pressure (see instrument specifications).
- Program, analyze, and report using Lansmont SaverXware application.
- Identify most severe events and assess liability.
- Use externally captured GPS data to identify location of event occurrence.
- Audit transport carriers and monitor their performance.
- Small footprint and envelope allows embedding as part of product and/or package.

SAVER™ 3M30 PLUS

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Lansmont Corporation

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	3M30	3M30 PLUS
PHYSICAL		
Envelope Size:	3.10 x 2.90 x 1.30 in (79 x 74 x 33 mm).	3.10 x 2.90 x 1.30 in (79 x 74 x 33 mm).
Volume:	11.7 in^3 (193 cm^3).	11.7 in^3 (193 cm^3).
Case Material:	6061-T6 aluminum.	6061-T6 aluminum.
Weight:	12.5 oz (354 g).	14 oz (397 g).
Mounting:	Four holes for #6 screws. Mounting bars recommended.	Four holes for #6 screws. Mounting bars recommended.
Environmental:	Weather-resistant.	Weather-resistant.
Power:	Rechargeable lithium ion battery.	Rechargeable lithium ion battery.
DATA RECORDING		
A/D Resolution:	12 bits.	12 bits.
Sample Rates:	1,000 samples per second per channel.	100 to 2,500 samples per second per channel.
Shock Triggering:	Signal threshold.	Signal threshold.
Temperature, Humidity, and Pressure Triggering:	NA	Shock signal and 10 minute interval based recording.
Continuous Record Time:	Up to 30 days.	Up to 30 days.
MEMORY		
Memory Size:	20 events.	100 events.
Memory Type:	FLASH.	FLASH.
Data Retention:	Retains data even when batteries are exhausted.	Retains data even when batteries are exhausted.
COMMUNICATIONS		
Interface:	USB 1.1 and 2.0 compatible.	USB 1.1 and 2.0 compatible.
TEMPERATURE		
Measurement Range:	N/A	-20 to +60°C (-4 to +140°F).
Measurement Accuracy:	N/A	±1.0°C from +5 to +40°C. ±2.0°C from -20 to 60°C.
Operating Temperature:	-20 to +60°C (-4 to +140°F).	-20 to +60°C (-4 to +140°F).
Battery Charging Temperature:	0 to 45° C (+32° to +113° F).	0 to 45° C (+32° to +113° F).
HUMIDITY		
Measurement Range:	N/A	5% to 95% RH, non-condensing.
Measurement Accuracy:	N/A	±3% from 20% to 80% RH at 25°C. ±5% from 5% to 95% RH at 25°C.
ATMOSPHERIC PRESSURE		
Measurement Range:	N/A	10 to 1100 mbar.
Measurement Accuracy:	N/A	±4 mbar from 750 to 1100 mbar at 25°C.
CONTROLS AND INDICATORS		
Controls:	Run / Stop button.	Run / Stop button.
LED Indicators:	Green / Yellow: Run/Stop Yellow: Battery Red: Shock Alarm	Green / Yellow: Run/Stop Yellow: Battery Red: Pressure Alarm Red: Shock Alarm Red: Humidity Alarm Red: Temperature Alarm
INTERNAL CHANNELS		
Accelerometer Type:	Tri-axial piezoelectric.	Tri-axial piezoelectric.
Acceleration Range:	100 g full scale.	100 g full scale.
Channel Filter Type:	3-pole, low-pass.	3-pole, low-pass.
Filter Frequencies:	250 Hz.	10, 20, 50, 100, and 250 Hz.
3 dB Frequency Response:	0.5 Hz to filter maximum.	0.5 Hz to filter maximum.
Measurement Accuracy:	±5% with nominal variations in temperature and frequency.	±5% with nominal variations in temperature and frequency.