

Saver™ 3M30 & 3M30+



Saver 3M30

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



Saver 3M30+

The 3M30+ allows the ability to internally record temperature, humidity, and atmospheric pressure (altitude) during both threshold and timer triggered sampling. The 3M30+ also allows user-defined sampling rate and filter frequency acquisition settings, while increasing the storage capacity for significant events. These instruments utilize the powerful SaverXware for all programming, analysis, reporting, and archiving of instrument activities.

Highlights:

- USB connectivity for communication, battery charge, and instrument power for continual, non-interrupted installations
- Individual LED Alarm indicators for Shock, Temperature, Humidity, and Pressure (see instrument specifications)
- Program, analyze, and report using the 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



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Saver 3M30 & 3M30+ Technical Specifications

PHYSICAL	3M30	3M30+
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	3M30	3M30+
A/D Resolution:	12 bits	12 bits
Sample Rates:	100 to 2,500 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:	N/A	Shock signal and 10 minute interval based recording
Continuous Record Time:	Up to 30 days	Up to 30 days

MEMORY	3M30	3M30+
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	3M30	3M30+
Interface:	USB 1.1 and 2.0 compatible	USB 1.1 and 2.0 compatible

TEMPERATURE	3M30	3M30+
Communication Temperature Range:	0 to +60°C	0 to +60°C
Operating Temperature:	-20 to +60°C (-4 to +140°F)	-20 to +60°C (-4 to +140°F)
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

HUMIDITY	3M30	3M30+
Measurement Range:	N/A	5% to 95% RH, non-condensing
Measurement Accuracy:	N/A	±3% from 10% to 90% RH at 25°C ±5% from 5% to 95% RH at 25°C

ATMOSPHERIC PRESSURE	3M30	3M30+
Measurement Range:	N/A	10 to 1,100 mbar
Measurement Accuracy:	N/A	±4 mbar from 750 to 1,100 mbar at 25°C

CONTROLS & INDICATORS	3M30	3M30+
Controls:	Run / Stop button	Run / Stop button
LED Indicators:	Green / Yellow: Run / Stop Green: Battery Red: Shock Alarm	Green / Yellow: Run / Stop Green: Battery Red: Pressure Alarm Red: Shock Alarm Red: Humidity Alarm Red: Temperature Alarm

INTERNAL CHANNELS	3M30	3M30+
Accelerometer Type:	Tri-axial piezoelectric	Tri-axial piezoelectric
Acceleration Ranges:	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



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