

# SMU JR VIBE

This special version of our Satellite Monitoring Unit SMU Jr offers all the same benefits and features you are used to with the added function of sensing mechanical vibration. This provides you important information and alerts you to critical conditions, including earthquakes.



# PRODUCT SPECIFICATIONS

## SATALARM® SERVER

### WEB-BASED SCADA

- Web browser based historian
- Color graphical interface
- User configurable displays
- Customizable dashboard
- Multi data point graphs
- Data tracking
- Integrated Maps
- Equipment configuration
- Device control
- Data conditioning
- Reporting

### EXTERNAL INTERFACES

- Serial: 2 ports; RS-232 and RS-485
- Built in internal 3-axis vibration sensor
- I/O: 4 channel; individually configurable as analog input or digital input/output
  - o Analog inputs: 0 – 3.0V, 1.0mV (12-bit) resolution; 4-20mA, 143 Ω loop resistor
  - o Digital inputs: -10 – 150VDC safe, pull-up or pull-down
  - o Digital outputs: 32VDC safe, 250mA sinking (open drain), or 3VDC, 25µA (pushpull)
- Additional I/O available using Modbus I/O expansion modules

### POWER

- Solar Power: 12VDC, 5W, 7Ah

### PROGRAMMING

- Reporting (configured over the air):
  - o Configurable time-of-day based schedule
  - o Configurable interval-based schedule
  - o 3 minutes up to once every 3 days
  - o By exception; user definable test conditions
- Modbus RTU:
  - o 16 configurable commands
  - o Data reportable by schedule, interval, threshold test, any change, or pattern match

### PHYSICAL

- 16.0 x 10.5 x 9.3 in. (40.6 x 26.7 x 23.6 cm)
- 13.9 lbs. (6.3 kg)

### ENVIRONMENTAL

- Operating Temperature: -20°C to +50°C
- Storage Temperature: -40°C to +85°C
- Humidity: 90%RH @ 85°C; meets SAE J1455
- Dust and Water Ingress: IP66/Nema-6P (with door screws installed)

### SATELLITE MESSAGING

- Two-way, global, IsatData Pro • From terminal (max per message) - 6400 bytes
- To terminal (max per message) - 10,000 bytes

### CERTIFICATIONS/ COMPLIANCE

- Satellite - Inmarsat • Other - C-Tick, CE, FCC, IC, Anatel, RoHS(?)

### GPS

- Acquisition Time: 27 seconds (warm & cold)
- Accuracy: 2.5 meters (CEP-Horizontal)
- Sensitivity:
  - o Acquisition: -147 dBm
  - o Tracking: -159 dBm

#### CONTACT DETAILS

#### CORPORATE

255 Pennbright Drive,  
Suite 240  
Houston, TX 77090

#### COLORADO

2171 S Trenton Way,  
Suite 217  
Denver, CO 80231

#### AUSTRALIA

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PH: +91  
7898144480

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## SATELLITE COMMUNICATION

- Frequency:
  - From terminal: 1626.6 – 1660.5 MHz
  - To terminal: 1525 – 1559 MHz
- Elevation Angle: 20° to 90° for communications link
- Maximum EIRP: 7.0 dBW
- Maximum Antenna Gain: 4.5 dBi

## ENCLOSURE

- Polycarbonate
- Nema-4x/6P (with door screws installed)
- 1x ½-inch pass-thru cord grip
- Lockable

## WARRANTY

- 3 year standard limited warranty

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