Get more out of your monitoring.

INZWA

Veva III 3-in-1 Monitor
Vibration, Tilt & Sound Sensor

Flexible antenna options

4G & WiFi enabled

Auto orienting

Locking connectors

Integrated lithium battery with lifespan of up to 8 months

Compact & lightweight for easy installation

ISEE, DIN45667-1 & IEC61672 compliant

Single-screw mounting

Integrated & activated with Inzwa Cloud platform & cellular service - no setup required.

Technical Data

Vibration Specifications:

Accuracy	± 5%
Acceleration Ranges	± 2, 4, 8 G
Data Outputs (Vibration)	Peak Amplitude (mm/s); Peak Frequency (Hz); Peak Particle Velocity (mm/s); Peak Vector Sum (mm/s); Raw Acceleration Data (g or mm/s2); Zero Crossing Frequency (Hz)
Measurement Axes	3
Max. Velocity Range	4.9in/s (125 mm/s) @100Hz
Sample Rates	1, 2 and 4 kHz
Frequency Response	1 - 1000 Hz
Timestamp Resolution	1.0 ms
Alert Threshold Range	0.04 to 24.4 in/s (1 to 620 mm/s)

Tilt Specifications (license optional):

Euler Angles	Pitch ±90°, Roll ±90°
Resolution	0.0035°
Accuracy	±0.005°
Data Outputs	Baseline, Instantaneous & Differential Angle (degrees)
Alert Thresholds	0.5° to 70.0°
Temperature Stability	+/-.005° (-45° to 85°C)
Stabilization Time	10 secs
Reading Interval	10 sec to 12 hours

Technical Data (con't.)

Sound Level Specifications (microphone required):

Type	IEC61672 Class 1
Weightings	A, C, and Z
Sample Rate	48 kHz
Frequency Response	20 Hz - 20 kHz
Distortion	2.2% at 115dB SPL
Equalization	Flat, 10 Hz to 20 kHz
Signal to Noise (dB)	64.5dbA
Acoustic Overload	120db
Response Standard	Fast (125s) or Slow (1s)

Communications Specifications:

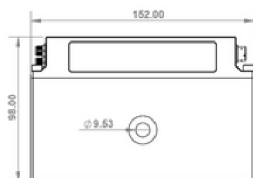|	
Cellular Type (E01 Models)	4G LTE M1/NB1/EGPRS, GPS
EGPRS Frequency Bands	850/900/1800/1900MHz
LTE Frequency Bands	1,2,3,4,5,8,12,13,18,19,20,25,28,39
WiFi Type (W01 Models)	802.11 b/g
WifI Frequency	2.4GHz
Wifi Transmission Rate	1 - 11Mbps (802.11b); 6 - 54Mbps (802.11g)
Protocols	FTP, M2M/SMS, MQTT, NTP, HTTP

Power and Environmental:

Battery	4 x D-cell Li-SOCl$_2$
Battery Capacity	52Ah
Battery Life	Up to 8 months, depending on configuration and environmental factors.
External Power	5V D.C. via USB, 2A USB adapter required.
Solar/Bus Power	7 - 18V D.C. Optional cable required.
Operating Temperature	-40°F to +185°F (-40°C to +85°C)

Physical:

Enclosure	Aluminum, IP67 rated
Dimensions	6.0in. x 1.6in. x 3.9in. (152mm x 41mm x 98mm)
Weight	2.5lbs. (1.15kg) w/4 D-cell batteries
Mounting	3/8 in. (M10) through-hole
Connectors	RP-SMA Female Antenna (Cellular/Wifi, GPS, BLE) 6-pin LEMO (USB) 4-pin LEMO (Auxiliary)

General:

Data Storage	512Mb Micro SD Card, expandable to 2Gb
Data Buffer	1 Mb
Clock	Network Time Sync, NTP
Data Output Format	CSV, JSON
Firmware Updates	Remote over-the-air programming (OTAP)
Device Management	Cloud, USB terminal, BLE (future)

Specifications subject to change without notice or obligation.

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