

||Vibes|| Span

Structural Monitoring of Bridges









Bridging Gaps in Technology

Bridging Gaps

Vibes Span Structural Monitoring of Bridges

Structural monitoring invoves the process of implementing a damage detection and characterization strategy for engineering structures. Structural health parameters such as corrosion, cracking, strength, tension, location of rebar / delaminations are measured with physical parameters measuring sensors.

Smart sensors with inbuilt power supply, primary sensors and transmitters enable wireless sensor network which helps in remote structural health monitoring.

Accelerometer



The Vibes Accelerometer is an extremely sensitive 3-axis acceleration sensor. It is especially designed for measurements of vibration in structural monitoring

(vibration) of whole or parts of buildings, vibration measurement of rotating machinery, for monitoring tower vibration at wind power plants etc.

Accelerometer	The triple-axis MEMS sensor
Frequency response	10 to 4000 Hz
Measurement range	±2g, ±4g, ±8g, ±16g
Transverse Sensitivity	<10%
Cross-Axis Sensitivity	+/-2%
AD conversion	16 Bit





Possible Sensor		
Use Ca	ses:	
Strain, L	.oad,	
Stress, We	ar on	
Structures		

Sensor Type	Strain Gauge, Rosette, Loadcell
Input Signal	Up to 8mv/V
Output Low Resistance	350 ohm ± 20 ohm



Ĵ) Tilt

The tilt sensor is packaged in a rugged enclosure with simple mounting features. It's designed to be immune to harsh conditions.

Tilt Meter	Biaxial MEMS sensor
Biaxial Angle	±15°
Resolution	0.001°

ECO

This Probe is meant for industryproven quality and reliability in measurement of humidity and temperature sensors and constant accuracy Continuously, 24 x 7 for many years.

 Humidity
 0% ~ 100% Rh

 Temperature
 -40°C ~ 125°C

 Accuracy
 ±2% Rh, ±0.2%°C







Semi-conductor-based Temperature Sensor for

- Sustained high performance characteristics
- Low power consumption especially battery operated Application

Temperature	-55°C to +125°C (-67°F to +257°F)
Accuracy	±0.5°C from -10°C to +85°C





The **VIBES GAMAN** series linear displacement pulsed probe is a spring loaded plunger type precision linear measurement sensor.

Stoke Length	25mm, 50 mm
Resolution	12/6/3µm

SeethaRam Mechatronics Pvt Ltd provides products and solutions for IOT Ecosystem. Apart from catlog offerings, you may contact us forcomplete electronic design solutions from the stage of design to manufacturing for IOT's / Embedded Products.Right from PCB layout, board & enclosure designs integrating embedded electronics, digital and analog acquisition, and power systems, we can do it all.

Few Developed Products & Solutions

- Touch Screen Indicators
- ✓ Controllers & Loggers
- ✓ Signal Splitters, Conditioners
- ✓ Humidity, Temperature Sensor
- ✓ Lux Sensor
- ✓ Wi-Fi RTU & Protocol Gateways

- ✓ Vibes Agriculture
- ✓ Vibes Mobility
- ✓ Vibes Warehouse
- ✓ Vibes Maintenance
- ✓ Force & Torque Sensors
- ✓ Strain Links & Vibration sensors

