

Zillion

TeleSoft

**Connecting
the world with
Zillion IoT suit**



ST-65

**IOT based Vibration
sensor**

**CONNECTING
SENSORS**

PRODUCT DESCRIPTION

ST-65 is an intelligent, powerful, and compact sensor that monitors the condition of machines or equipments to predict their failures in advance to avoid costly downtime saving time and money for its owners. Designed to work in a rugged, industrial environment, ST-65 is a very compact, light-weight vibration sensor that can be easily installed on a range of equipment to detect abnormal vibrations, unusual sounds, or high temperature. This enables production floors and utilities to know the real-time condition of their equipments.



Triaxial vibration



Noise



Temperature

DATASHEET/ TEST REPORT

Sensing Technology	MEMS Based
Vibration Sensor	3-axis MEMS Sensor
Frequency Range	0.2Hz to 1.3kHz
Low Noise	75µg/sqrt(Hz)
Data from Sensor	3-axis acceleration & velocity RMS, 3-axis acceleration & velocity FFT, 3-axis spectral features as per configuration
Temperature Sensor	Semiconductor sensor with max 0.2°C accuracy over -40°C to +100°C range
Data from Sensor	3-axis acceleration & velocity RMS, 3-axis acceleration & velocity FFT, 3-axis spectral features as per configuration
FFT Frequency Resolution	0.8Hz
RS-485	RTU connectivity on Modbus protocol, 2-wire, baud rate configurable to 1.2kbps to 115.200kbps
Transfer Interval Configuration	Real-time transfer every 10 sec FFT data transfer every 30 mins FFT data on-demand from server FFT data on alarm
LED indication	Red, Green, Blue, Orange
Wireless Frequency Range	2412MHz to 2484MHz
Network Protocol	MQTTS/ HTTPS/ TCP/ IPv4
Power Supply	External 24VDC+/-10%
Operating temperature	-40°C to +125°C
Size	40mm (L)X 40mm (W)X 33mm (H)
Weight	78 gms