uBlock

UB-ST-SS uBlock **Bluetooth**® 5 wireless technology IIOT Vibration and Temperature Sensor

PHYSICAL	
Dimensions	44 x 44 x 47 mm
Weight (SS Base)	160g
Thread	Metric M6
IP Rating	68
Temperature	-20°C - 85°C

MEASUREMENTS		
All Sample Rates		
Max 32768 samples		Max 12800 lines
Sample Rate* 26.67kHz / (4, 10, 45, 100)		
Filtering	HP	SR/ (100. 45, 20, 10)
	LP	6.3kHz
Frequency accuracy		< 0.1%
*Sample Rate is optimised for temperature		

BATTERY	
Factory Replace	3.6V Li-SOCL$_2$
Op Life	3-5Yr (use based)

SOFTWARE	
Android App	iOS App
Cloud/ Bowser App	Local Gateway App

MEMS SENSOR SPEC	
ENOB (for range)	15 bits/ 85dB
Range steps	2, 4, 8, 16g
Temperature	-40°C to 105°C
Noise	75 ug/√Hz
x, y, z	Fmax 6.3kHz

OA SYMPTOMS/ AXIS (USED FOR MESH LAYER)	
ISO Velocity	gRMS
3 Top Peaks < 1kHz	5 Top Peaks > 1kHz
g Peak	g Kurtosis
Temperature	E1(0.5-1kHz) gRMS
E1(1-2kHz) gRMS	E1(2-4kHz) gRMS
Battery Life	Sample Time

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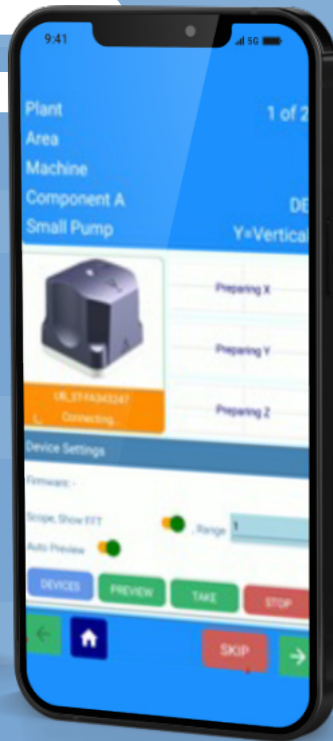
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User Case Study 1

Walk up and Route Based Collection using the uBlockVT16

Connect to a handheld uBlock with a magnet and move around a pre-defined route to collect data OR collect data from fixed uBlock devices behind guards and in inaccessible positions.

Android or iOS phone/tablet application provides all the functions and measurement capabilities of a $20k data collector to implement walk around, WiFi or 4G can pass data back to the Cloud for analysis

User Case Study 2

On Line Monitoring using GATT (Point to Point)

Simply configure a Gateway to connect to several uBlock Devices within the direct connection GATT protocol.

Data can then be collected ON Demand (controlled by the Cloud or local rules) based on time, threshold, alarm state and data will be stored and analysed locally/ passed to the Cloud portal or stored locally/ sent via OPC to Automation system / VPN analysis.

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