

Specification Sheet

Tag360 MX™

TagBox
September, 2019

Revision 1.2

1 Overview



Tag360 is a battery powered sensor tag to actively monitor and report sensitive asset parameters. Tag360-MX Sensor Tag monitors and reports ambient **temperature, humidity, shock or vibration, and light** exposure. Tag360 sensor is powered with 1000 mAh, ensuring field life of more than two years even at sub-zero temperatures.

Combined with TagHub Gateway/TagLink app and BoxLens web platform, Tag360-MX allows tracking of assets' health in real time. The Tag360-MX tag has inbuilt flash memory capable of storing upto 16K measurements. This feature allows user to log data even under network outages and synchronize the historical data once the sensor tag comes in vicinity of a TagHub gateway or TagLink app.

Section 2 gives details of specifications of Tag360-MX. Section 3 provides physical installation details. Section 5 provides instructions on using BoxLens platform for creating shipments, as well as viewing shipment performance.

2 Specifications

Details of Electrical, Mechanical, RF specifications, as well as certifications available with Tag360-MX are captured in this section.

2.1 Electrical Specifications

Parameter	Value (Defaults)	Remarks
Radio	Bluetooth 4.2	
Chip model	Nordic nRF52832	Nordic Semiconductor 512k
Battery	CR2477	1000 mAh
Output Power	+0 dBm	Max 4dBm
Receiving Sensitivity	-95dBm	
Data recording Interval	15 minutes	Shock data capture is event driven
Logger Memory	16K points	

Table 2.1 Specifications Table

2.2 Sensor Specifications

Sensor	Range	Resolution	Type
Temperature	-40°C to +120°C	0.01°C Max Error: +/-0.3°C (10°C to 55°C)	SHT31
Relative Humidity	0% to 100%	1% Max Error: 2.5% (0% to 90%) 3.5% (>90%)	SHT31
Light	Upto 80K Lux	0.01 lux	OPT3001
Shock and Vibration	Range	±16g	LIS3DH
	Sensitivity, Resolution	±32mg/digit, 10 bit resolution	
	ODR	25 Hz	
Temperature - Probe	-40°C to +120°C	0.01°C Max Error: +/-0.3°C (10°C to 55°C)	SHT31

Table 2.2 Specifications Table

2.3 Mechanical Specifications

Mechanical	
Weight	50 gram
Mounting	3M tape
Size	71mm*38mm*18mm

Table 2.3 Mechanical Specifications