

EDGE SENSOR

MANUAL & SPECIFICATIONS



VERSION: 1.1

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10/18/19	1.0	Created	Ori Peled
10/31/19	1.1	FCC label edit	Ori Peled

SAFETY STATEMENTS

WARNING: Changes or modifications which are not expressly approved by AMI Global LLC could void the user's authority to operate the equipment.

The distance between user and products should be no less than 20cm

AVERTISSEMENT: Les changements ou modifications qui ne sont pas approuvés par COMPANY XXX pourrait annuler l'autorité de l'utilisateur de faire fonctionner l'équipement

La distance entre l'utilisateur et de produits ne devrait pas être inférieure à 20cm

ATTENTION: This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation. The distance between user and products should be no less than 20cm.

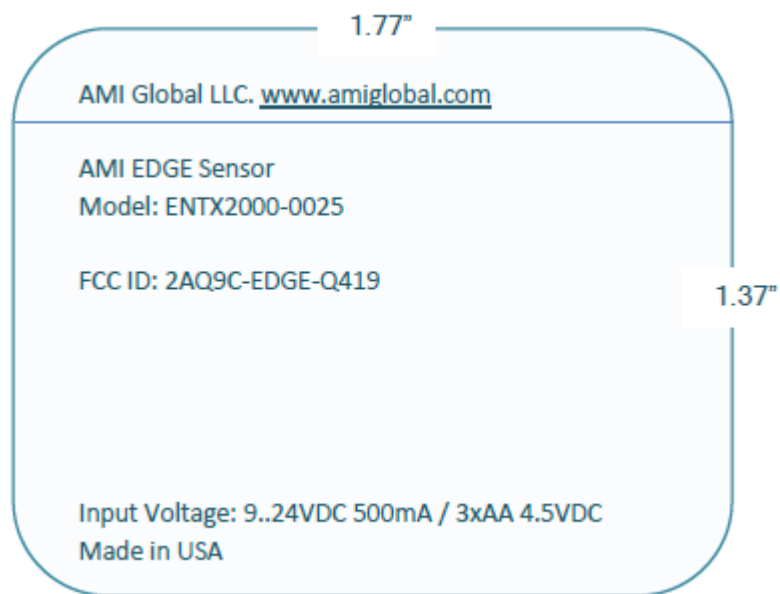
ISED RSS-GEN statement

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions:

(1) This device may not cause interference.

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

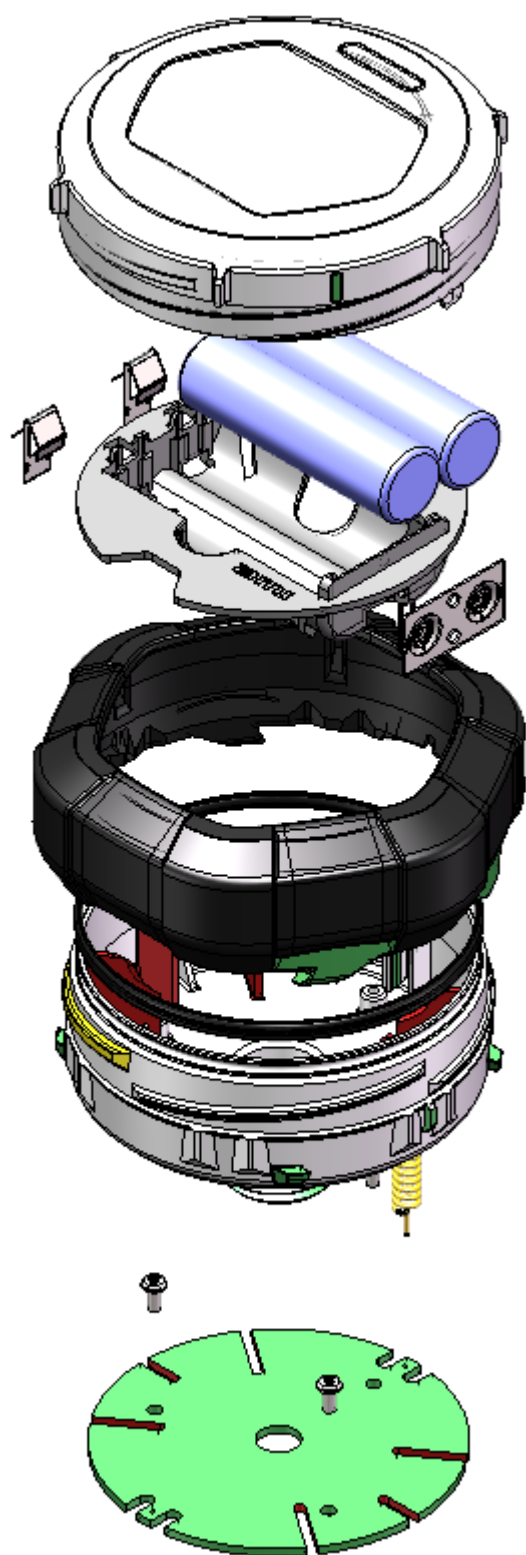
FCC LABEL



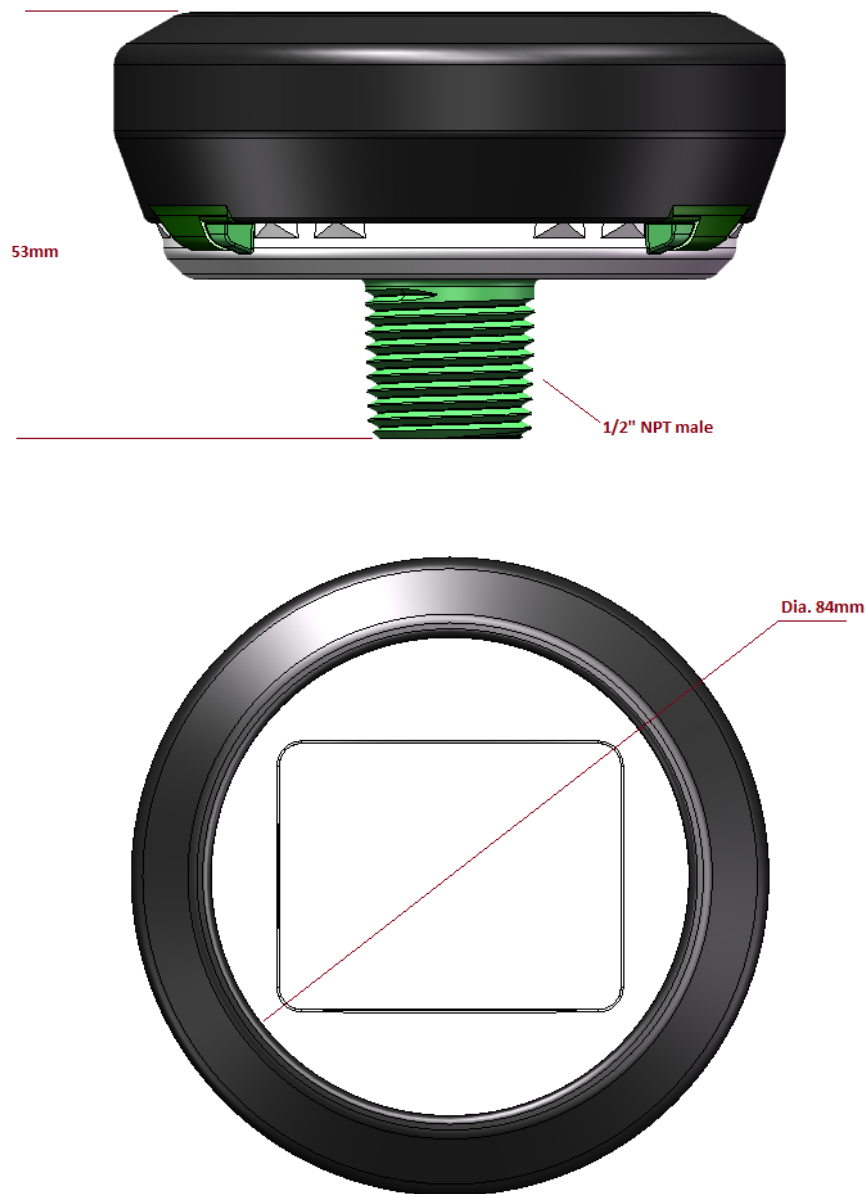
SPECIFICATIONS

I/O	- Analog input x 2: 0-2.5V, 0-10V / 4-20mA (SW configurable) - Digital input x 2 - RS485 Half-Duplex
Communication	900MHz RF star-network configuration for multiple pumps connectivity
Measurements	3-Axis vibration monitoring [Inch/Sec] - Temperature $\pm 5^{\circ}$ [°F] - Battery voltage [V]
EDGE computing	- Spectral analysis - Radial velocity RMS - Axial velocity RMS 3-Axis velocity FFT @ Five selected frequencies - Where x = rotation freq. ex. 1x, 2x, 3x, 7x, 10x - Rotation velocity [RPM] - Impact analysis - Stroke count - Stroke rate - Operational hours
Notifications	- Axis velocity RMS threshold cross - Radial velocity RMS threshold cross - Velocity amplitude threshold cross in any of the FFT selected frequencies - Stroke rate threshold cross - Stroke count threshold cross - Operational time threshold cross - Temperature threshold cross - Analog measurement threshold cross - Digital inputs changes or flow frequency threshold cross
Operation modes	- Battery: 1 yr. @ 4 sample/hour and 2 cloud updates per day - External DC power: 9..24VDC; up to 20 sample/hour and 8 cloud updates per day
User interface	- Internet browser - Mobile apps: iOS and Android using BLE for on-site offline device connectivity
Dimension & build	3.3" Diameter, 2.0" Height - Robust glass filled PP enclosure IP66 comply - Mounting neck ½" NPT male thread x ¾" long
Standards	- FCC Part 15 (see label) - RoHS comply
Environmental conditions	Temperature: -22°F/+158°F

ASSEMBLY



DIMENSIONS



MOUNTING

Use the EDGE ½" NPT neck to mount the device by threading it into a ½" NPT female socket securing it to the measured body.

Example: mounting the sensor onto an AODD pump.



½" NPT female adapter



BATTERIES REPLACEMENT

Use Energizer L91 Ultimate Lithium 3 x AA batteries ONLY

1. Remove the rubber sleeve
2. Release the lid turning it ¼ turn counterclockwise and lift it up
3. Replace the batteries following the polarity signs
4. Lock the lid
5. Place the rubber sleeve

