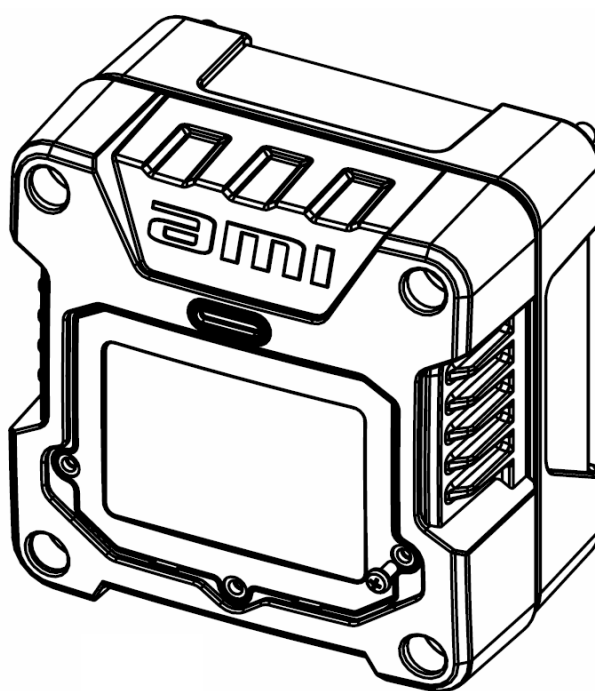


VAPOR-C

MANUAL & SPECIFICATIONS



VERSION: 2.4

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Date	Document Version	Comments	By
11/18/18	2.0	Created	Ori Peled
11/26/18	2.2	Adding FCC label artwork	Ori Peled
01/15/19	3.4	Update text	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 licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-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.

Cet appareil contient des émetteurs / récepteurs exemptés de licence conformes aux RSS(s) d'Innovation, Sciences et Développement économique Canada. Le fonctionnement est soumis aux deux conditions suivantes:

(1) Cet appareil ne doit pas causer d'interférences.

(2) Cet appareil doit accepter toutes les interférences, y compris celles susceptibles de provoquer un fonctionnement indésirable de l'appareil.

ISED RSS-102

This system has been evaluated for RF Exposure per RSS-102 and is in compliance with the limits specified by Health Canada Safety Code 6. The system must be installed at a minimum separation distance from the antenna to a general bystander of xx inches (xx cm) to maintain compliance with the General Population limits.

L'exposition aux radiofréquences de ce système a été évaluée selon la norme RSS-102 et est jugée conforme aux limites établies par le Code de sécurité 6 de Santé Canada. Le système doit être installé à une distance minimale de xx pouces (xx cm) séparant l'antenne d'une personne présente en conformité avec les limites permises d'exposition du grand public

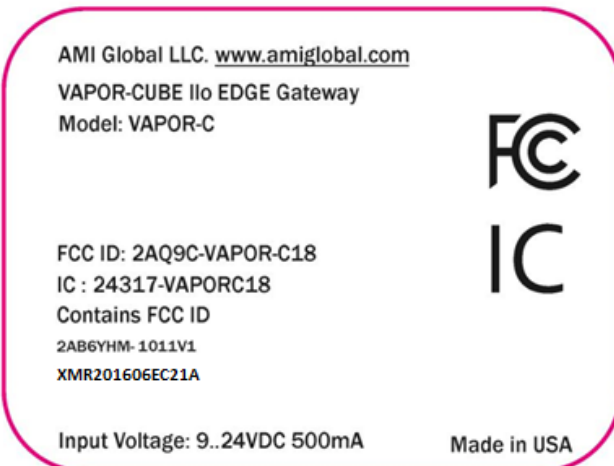
FCC LABEL (VERIZON CAT-1 MODEL)



FCC LABEL (VERIZON CAT-M MODEL)



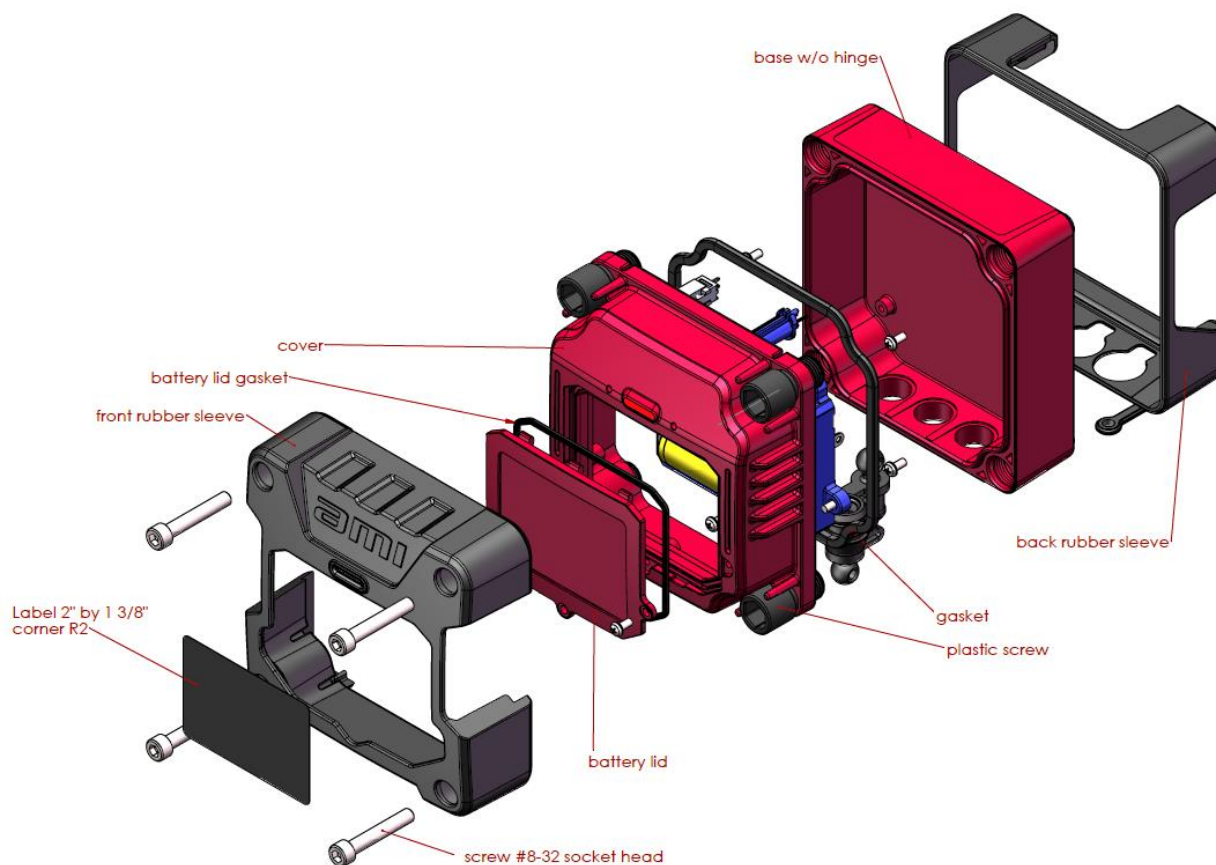
FCC LABEL (AT&T / T-MOBILE CAT-1 MODEL)



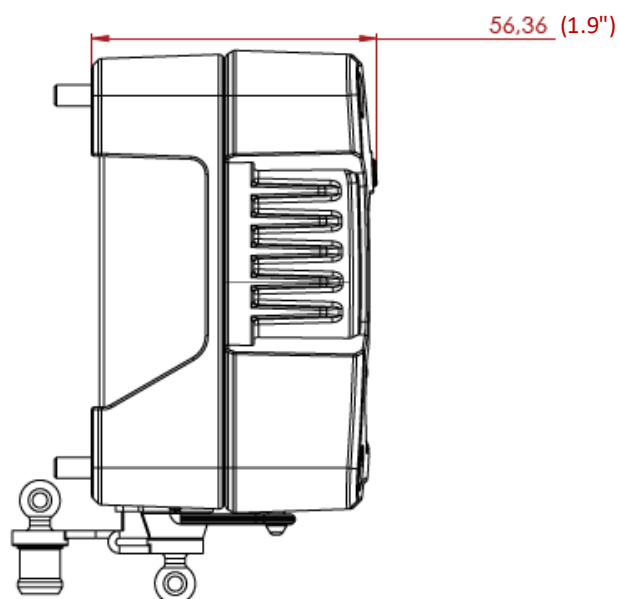
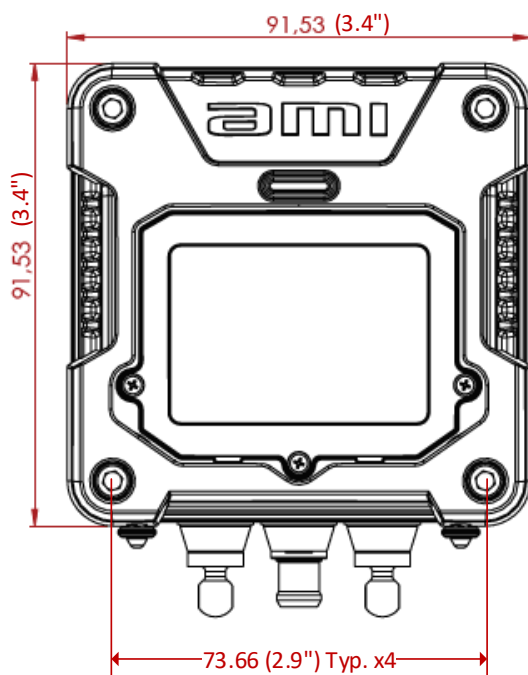
SPECIFICATIONS

I/O	• Analog input x 4: 0-2.5V, 0-10V / 4-20mA (SW configurable) • Digital input • RS485 Half-Duplex
Communication	• 4G LTE cellular cloud connectivity • 900MHz RF star-network configuration for multiple pumps connectivity • BLE • GPS
Measurements	• 3-Axis vibration monitoring [Inch/Sec] • Temperature $\pm 5^{\circ}$ [°F] • Battery voltage [V]
EDGE computing	• 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] • Operational hours
Notifications	• Axis velocity RMS threshold cross • Radial velocity RMS threshold cross • Velocity amplitude threshold cross in any of the FFT selected frequencies • Operational time threshold cross • Temperature threshold cross • Analog measurement threshold cross • Digital input 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	• 3.4"x3.4"x1.9" • Robust glass filled PP enclosure IP65 comply • Mounting screws 4x #8-32 x1 inch long
Standards	• FCC Part 15 (see label) • RoHS comply
Environmental conditions	• Temperature: -22°F/+158°F

ASSEMBLY

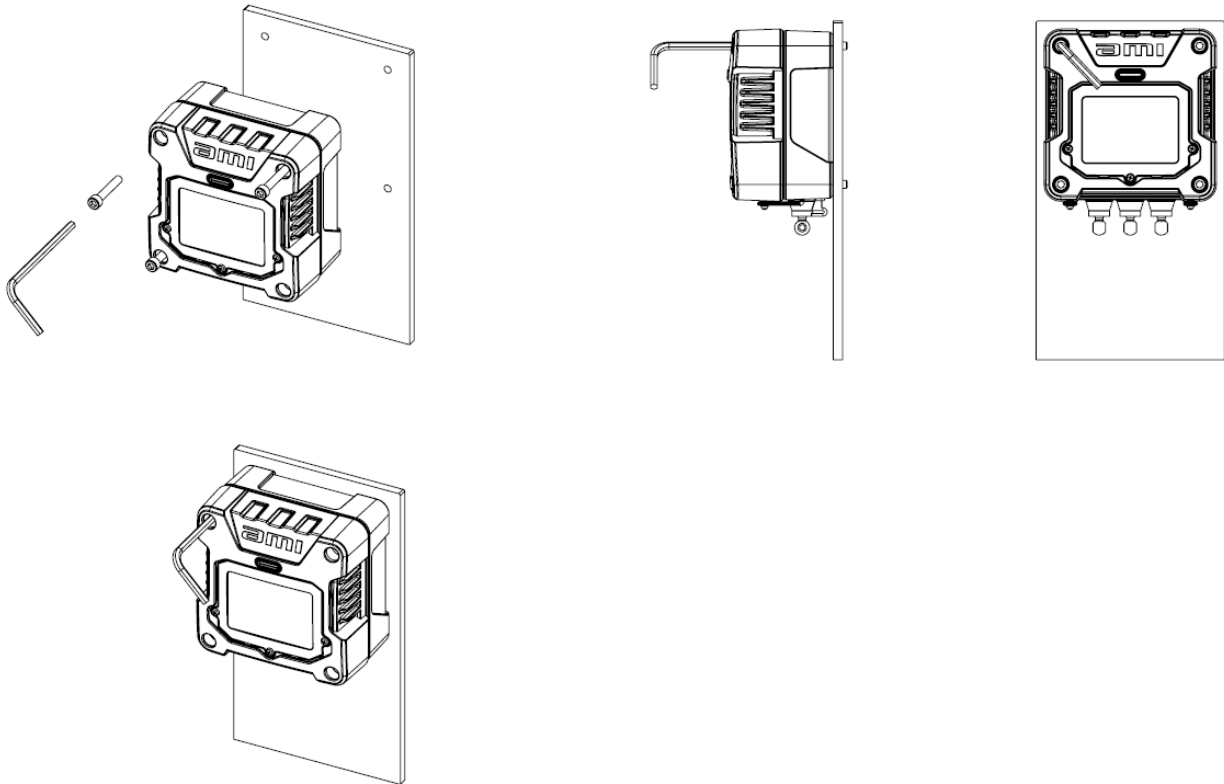


DIMENSIONS

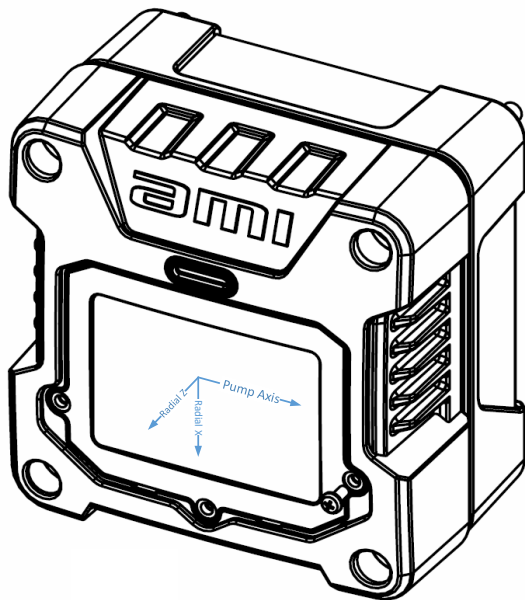


MOUNTING

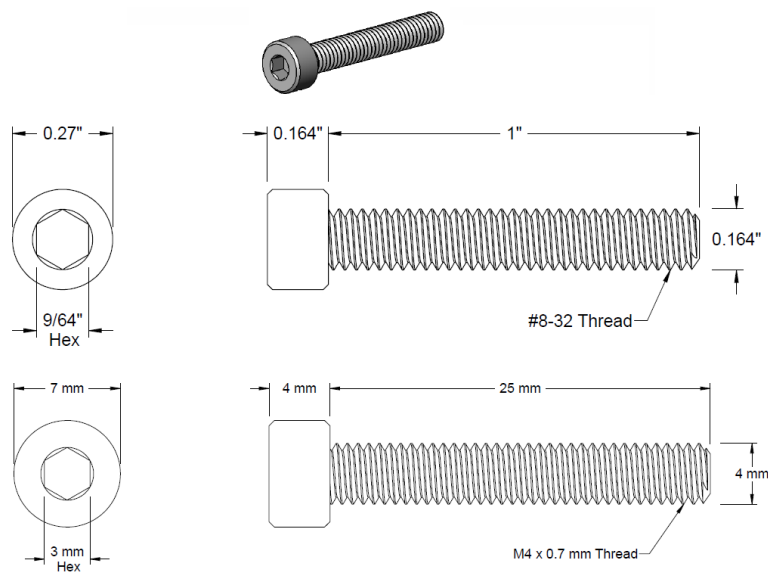
Use the #8-32 x 1" screws to secure the VAPOR-C to the monitored equipment (9/64" Allen wrench). If the device is used as a pump controller or communication gateway, then there is no importance to the orientation; however, if also used for rotating equipment vibration monitoring then follow the below for the right orientation.



Mounting orientation

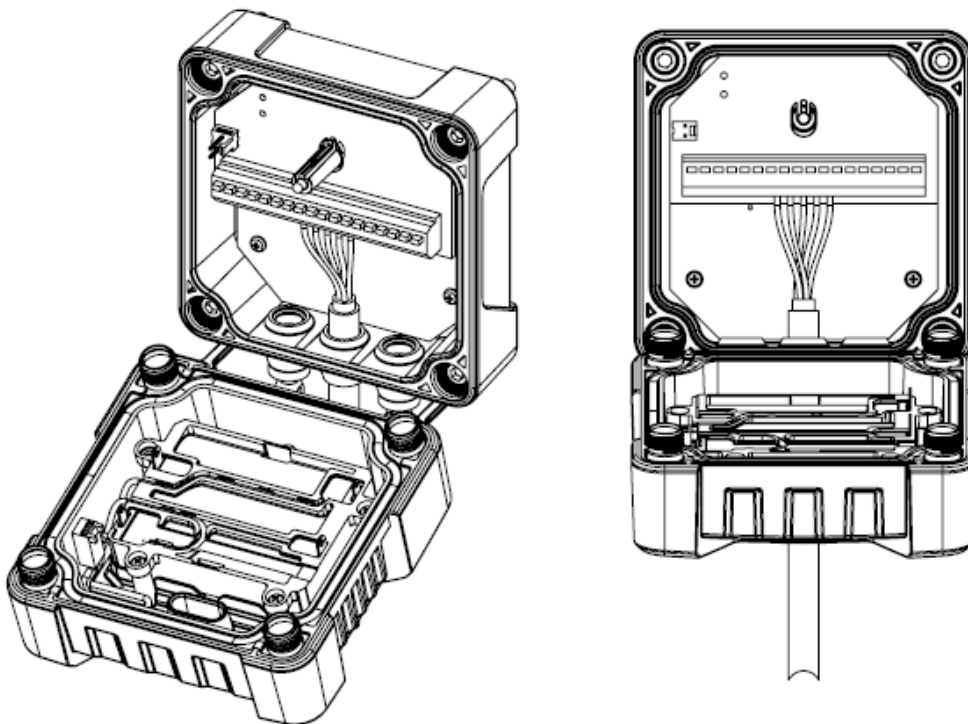
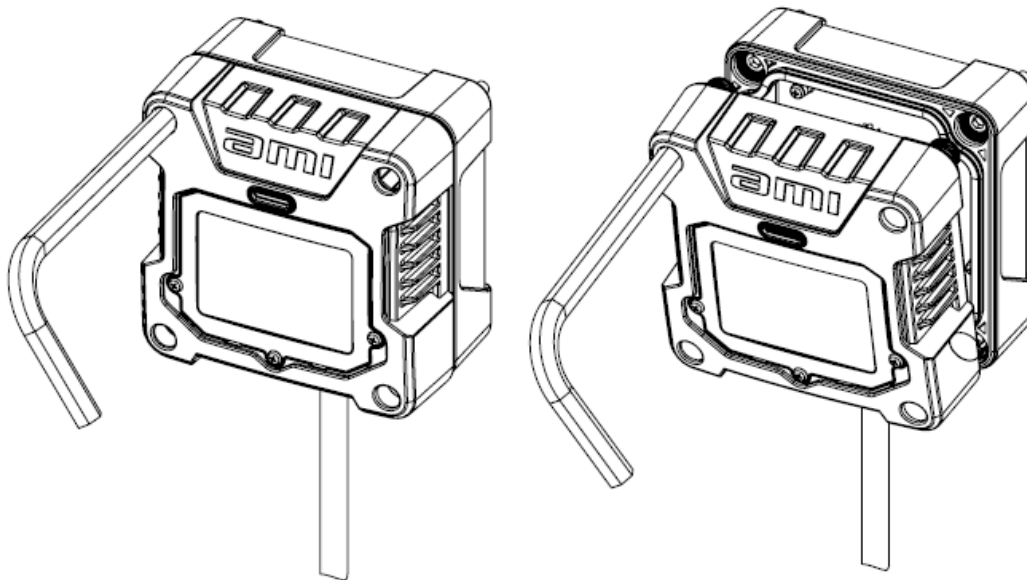


Mounting screws

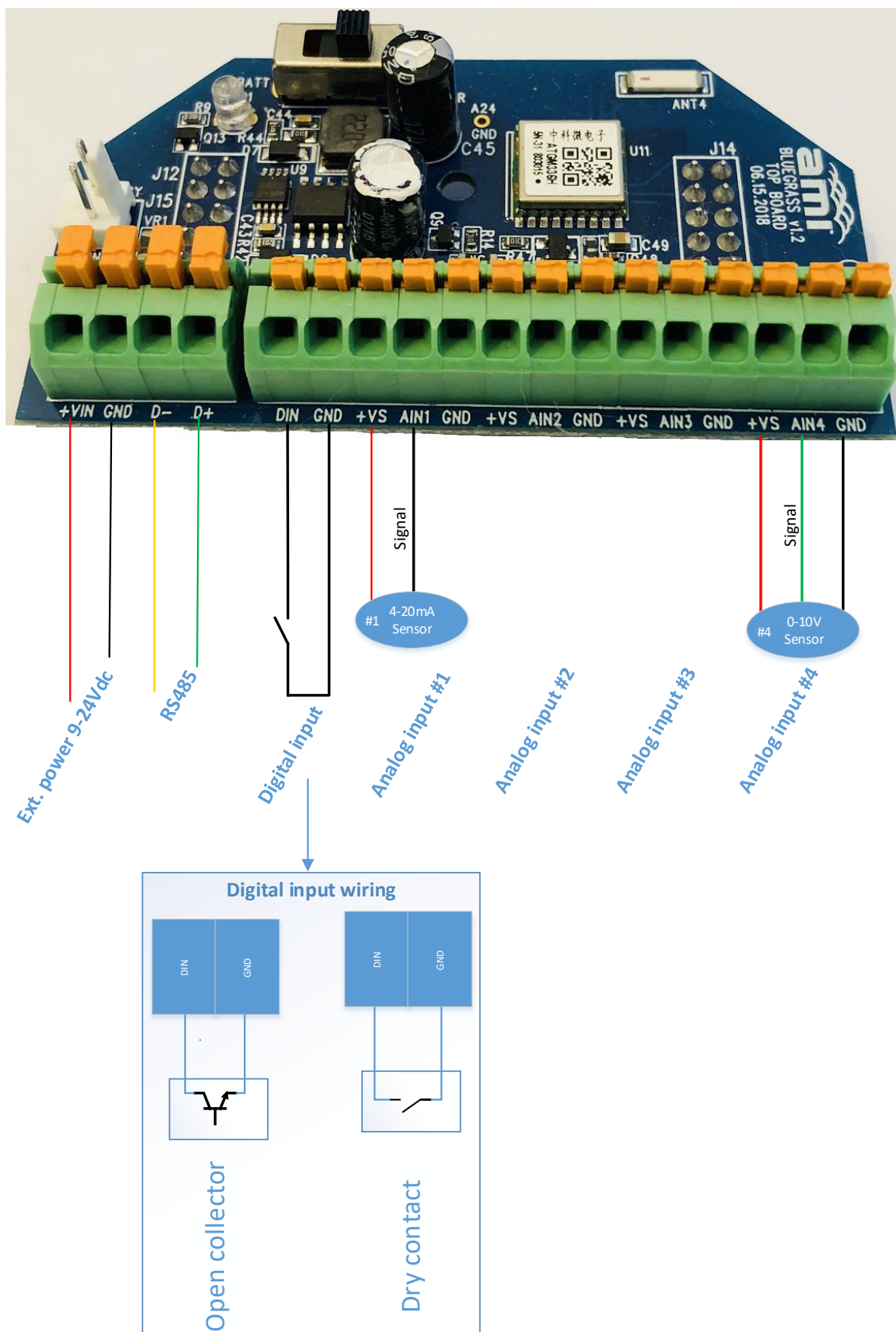


WIRING

- Use the Allen wrench 5/6" (8mm) to unscrew the cover from the base.
- Open the box, so you have access to the wire's terminal block
- Run the 6-wire cable through the cable gland in the bottom. For water resistance environment use cable AMI part#400-0048. If other cable is used, ensure cable outer diameter of 8mm and smooth cable jacket for proper sealing.
- Connect the wires according to the wiring diagram below



I/O are functional only when device is connected to external power supply



BATTERIES REPLACEMENT

Use Energizer L91 Ultimate Lithium 3 x AA batteries ONLY

