VIBRATION SENSOR MOUNTING:

This application note presents three sensor mounting options utilizing the universal mounting bracket:

- ❖ **Epoxy**: This option provides a strong, fixed, permanent mount resulting in good sensor data measurements.
- ❖ **Magnets**: This option provides a strong mount provided that the contact surface is large enough to make a good connection. This option provides the flexibility to move the mount, but this can also create a disadvantage if the magnet is accidentally dislodged from its intended location.
- ❖ **Cable Ties**: This option provides another alternative for surfaces upon which epoxy and magnets are not feasible. Mounting in this manner provides the ability to adjust the location but could prove challenging to mount tightly.

Technique 1: Sensor Mounted Using Epoxy

- ❖ **Equipment Needed:** Gloves, Degreaser, Epoxy, Universal Mount, Screws
  Note: Please follow all manufacturer instructions when utilizing aforementioned products.

Figure 1: Degreaser

Figure 2: Epoxy

Figure 3: Universal Mount and Screw

- ❖ **Instructions:**
  - **Step 1:** Using gloves for protection, apply degreaser to surface on which epoxy will be placed.
  - **Step 2:** Affix two #8-32 machine screws with flat head to bracket. (See Figure 3)
  - **Step 3:** Apply epoxy between motor fins as close to the motor output as possible. (See Figure 4)
  - **Step 4**: Affix universal mount to epoxy. (See Figure 5)
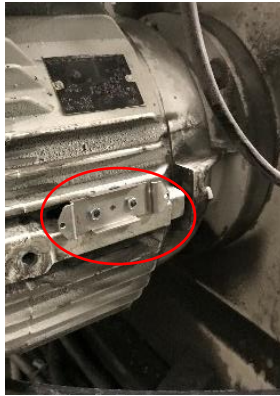 - **Step 5**: Affix sensor to universal mount using screws. (See Figure 6)

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Figure 4: Application of Epoxy

Figure 5: Mount Affixed to Epoxy

Figure 6: Sensor Attached to Mount
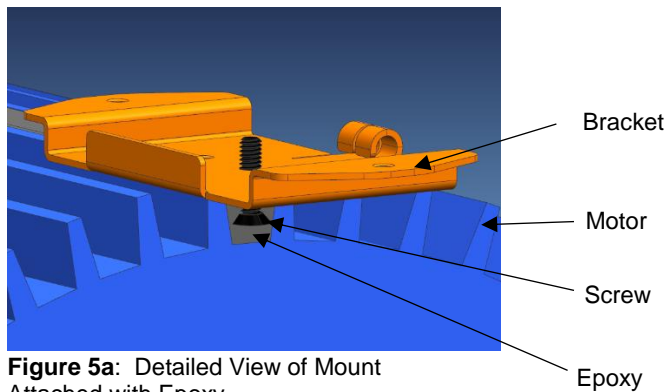
Figure 5a: Detailed View of Mount Attached with Epoxy

- Bracket
- Motor
- Screw
- Epoxy

Technique 2: Sensor Mounted Using Magnets

❖ **Equipment Needed:** Gloves, Degreaser, Universal Mount, Screws, Magnets
Note: Please follow all manufacturer instructions when utilizing aforementioned products.

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Figure 7: Universal Mount with Magnets & Screws

❖ **Instructions:**
- **Step 1**: Using gloves for protection, apply degreaser to surface on which universal mount will be placed.
- **Step 2**: Affix magnets to universal mount using screws. (See Figure 7)
- **Step 3**: Affix sensor to universal mount using screws. (See Figure 8)
- **Step 4**: Attach magnetized universal mount to a flat surface on the equipment. (For motors, place as close to the motor output as possible.) (See Figure 8)

Figure 8: Sensor Magnetically Mounted to Equipment

Technique 3: Sensor Mounted Using Cable Ties

❖ **Equipment Needed:** Universal Mount, Screws, Cable Ties

❖ **Instructions:**
- **Step 1**: Attach sensor to universal mount using screws.
- **Step 2:** Place universal mount on the equipment. (For motors, place as close to the motor output as possible.)
- **Step 3:** Attach cable ties to the universal mount and extend the cable ties around the equipment. (See Figure 9)
- **Step 4:** Secure the cable tie ends to each other and tighten.

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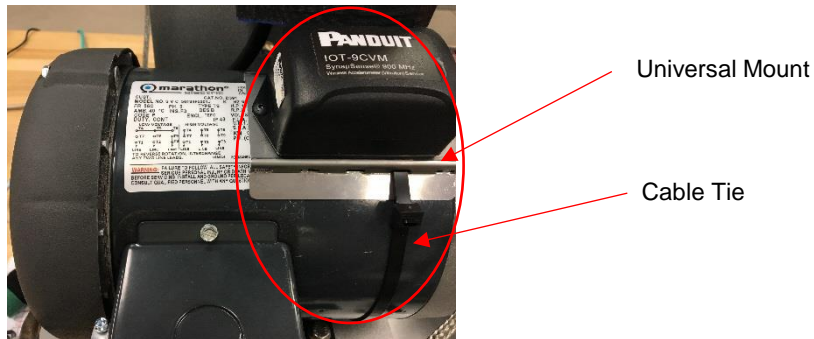**INSTALLATION INSTRUCTIONS**   V00029IA/01

Figure 9: Universal Mount
Attached Using Cable Ties

TEMPERATURE SENSOR MOUNTING:

In addition to the mounting capabilities noted above, the universal mounting bracket also features a curl which can be used to hold the extended lead of the temperature sensor in place. After attaching the sensor to the universal mount, route the extended lead through the curl on the universal bracket.
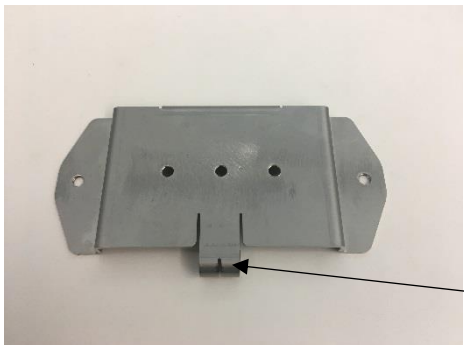

Curl

Figure 10: Universal Mount featuring Curl

Figure 11: Temperature Sensor with Extended Lead Routed Through Curl on Universal Mount

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