

# DUCT MOUNTED ION SENSOR

# IONIZATION PRODUCT SUBMITTAL



**DUCT MOUNTED ION SENSOR**

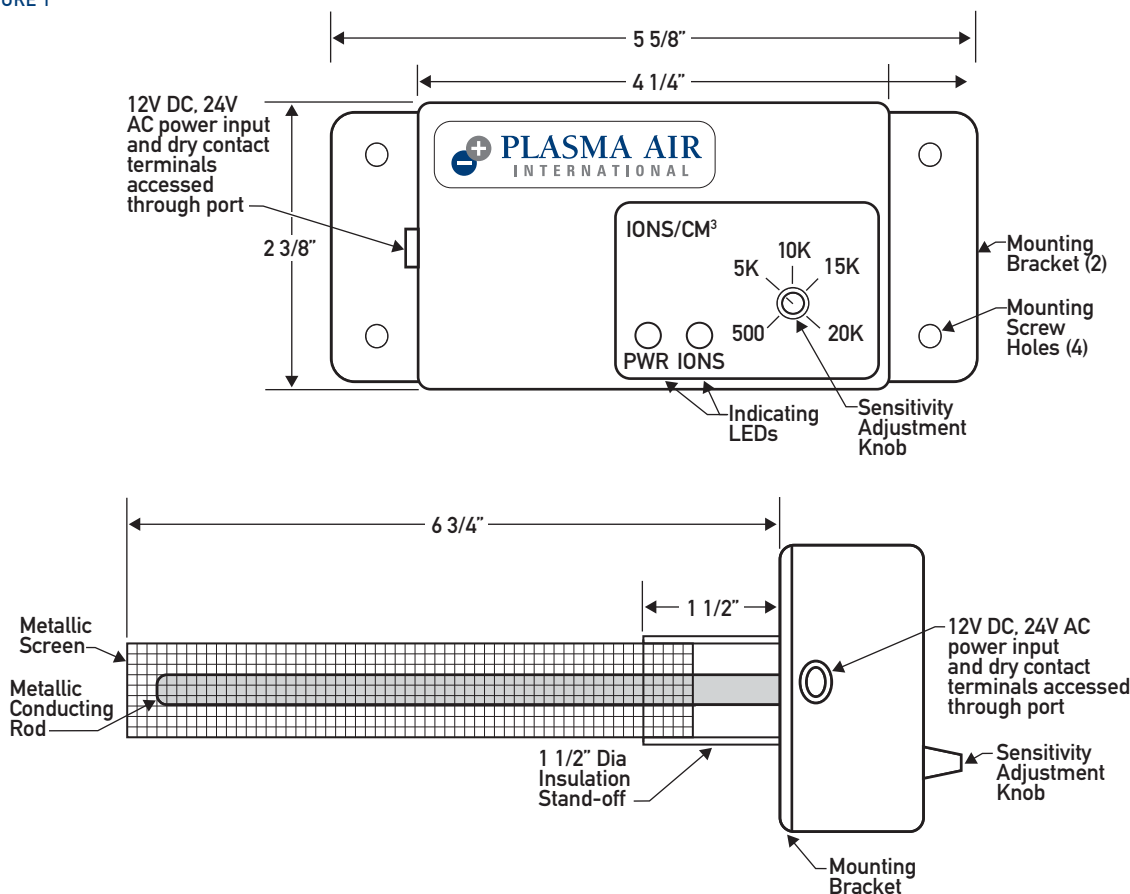
The Plasma Air Duct Mounted Ion Sensor is designed to sense the presence of ions in a duct. Dry contacts are provided to interface with the Building Automation System (BAS). The contact will open below a user-defined value and will close above that value. The sensor also includes LEDs for power and ion indication. The unit is installed on the side of the duct utilizing the pre-drilled mounting brackets located at either side of the unit with the probe extending into the airstream. The unit contains a control knob that can be field adjusted to increase or decrease the sensitivity at which the ions are sensed.

**SPECIFICATIONS:**

- Housing Material:** ..... Die Cast Aluminum
- Maximum Operating Temperature:** ..... 200°F (93°C)
- Electrical:**
  - Input Voltage** ..... 12V DC or 24V AC
  - Frequency** ..... 50/60 Hz
- Mounting:** ..... Side angle brackets
- Pressure Drop:** ..... <0.05" W.G.

- Dimensions:** ..... See Figure 1
- Ion Detection:** ..... LED and Closed Contact
- Detection Range:** ..... 500-20,000 ions/cm<sup>3</sup>
- Detection Adjustability:** ..... User
- Detection Polarity:** ..... Positive and Negative
- Detection Limit:** ..... 500-20,000,000 ions/cm<sup>3</sup>

FIGURE 1



**DUCT MOUNTED ION SENSOR**  
not to scale