The EF-x1000-T (ELF) is EBTRON’s economical measurement solution for round ducts between 4 and 16 inches in diameter. Ideal for most small duct airflow measurement and volumetric airflow tracking applications. Low flow performance, temperature capability and connectivity options make this a better choice than traditional differential pressure averaging arrays, rings and crosses.
**General**

**Probe and Sensor Node Configurations**
- 1 probe x 1 sensor node/probe (4 inch [101.6 mm] probe)
- 1 probe x 2 sensor nodes/probe (5 to 16 inch [127.0 to 406.4 mm] probes)

**Installed Airflow Accuracy**
- ±3% of reading

**Sensor Node Averaging Method**
- **Airflow**: Independent arithmetic average
- **Temperature**: Independent, velocity weighted average

**Listings and Compliance**
- UL: 873 and CSA C22.2 No. 24 (EF-x1000-T/ELF-F0x Only)
- FCC: This device complies with Part 15 of the FCC rules
- RoHS: This device is RoHS2 compliant

**Environmental Limits**
- **Temperature**:
  - Probes: 0 to 2,000 fpm [0 to 10.16 m/s]:
    - -20 to 120 °F [-28.9 to 48.9 °C]
  - Probes: 0 to 3,000 fpm [0 to 15.24 m/s]:
    - 0 to 120 °F [-17.8 to 48.9 °C]
  - Transmitter: -20 to 120 °F [-28.9 to 48.9 °C]
- **Humidity**: (non-condensing)
  - Probes: 0 to 100%
  - Transmitter: 5 to 95%

**Individual Sensing Nodes**

**Sensing Node Sensors**
- **Self-heated sensor**: Precision, hermetically sealed, bead-in-glass thermistor probe
- **Temperature sensor**: Precision, hermetically sealed, bead-in-glass thermistor probe

**Sensing Node Housing**
- **Material**: Glass-filled Polypropylene (Kynar® with /SS option)
- **Sensor Potting Materials**: Waterproof marine epoxy

**Sensing Node Internal Wiring**
- **Type**: Kynar® coated copper

**Airflow Measurement**
- **Accuracy**: ±3% of reading to NIST-traceable volumetric airflow standards (includes transmitter uncertainty)
- **Calibrated Range**: 0 to 3,000 fpm [0 to 15.24 m/s]
- **Calibration Points**: 7

**Temperature Measurement**
- **Accuracy**: ±0.15°F [0.08 °C] to NIST-traceable temperature standards (includes transmitter uncertainty)
- **Calibrated Range**: -20 to 120 °F [-28.9 to 48.9 °C]
- **Calibration Points**: 3

**Sensor Probe Assembly**

**Tube**
- **Material**: Mill finish 6063 aluminum (316 stainless steel with /SS option)

**Mounting Brackets**
- **Material**: 304 stainless steel

**Mounting Options & Size Limits**
- **Insertion**: 4, 5, 6, 7, 8, 9, 10, 12, 14, & 16 inch round [101.6, 127.0, 152.4, 177.8, 203.2, 228.6, 254.0, 304.8, 355.6 & 406.4 mm]

---

1. Installed airflow accuracy is the actual system accuracy expected and includes sampling uncertainty of the sensor probes when installation meets or exceeds placement guidelines.