

# ExactaGuard™ Pole Sensor and Conductor Sensor Solution

Achieve full awareness of your most critical distribution assets. ExactaGuard Pole and Conductor Sensors install quickly and easily with a hot stick. The Aclara Mobile Programmer® tool makes programming simple.



## Pole Sensor Specifications

- **Mounting Method:** Lag Screw or Tie-wrap band
- **Dimensions, case body (L x W x H):** 2.7"x4.3"x4.6"
- **Weight:** 0.55lbs. +/- 0.05lbs.
- **Operating Temperature:** -40°C to +65°C temperature ambient air, (-40°F to +149°F), IEC 60068-2-30 (Damp Heat Cycle - Relative Humidity)
- **Storage Temperature:** -40°C to +85°C, (-40°F to +185°F), IEC 60068-2-2 (Operating & Storage Temp)
- **Operating Humidity:** 0% - 100% condensing
- **Ingress Protection:** IP54 per IEC 60529
- **Materials:** UV stabilized polycarbonate
- **Device Powering:** Non-Replaceable D-Cell Lithium-Thionyl, Chloride battery
- **Communication:** Aclara RF™ Network: 7232 Baud NRZ 2GFSK with +/-2.0KHz Dev, Bluetooth Low Energy: 2Mbit/S GFSK
- **RF Output:** 450MHz to 470MHz: 1W max (30dBm) 2.402GHz to 2.480GHz: 4.0mW max (6dBm)
- **BLE range:** 100 ft. min for direct line of sight
- **Antenna:** Internal
- **Pole Tilt Configuration:** Threshold is configurable locally and remotely for up to 4 tilt zones
- **Alarm Reset:** Alarm Automatic Reset Time (Impact), configurable from 1 hr. up to 72 hrs.
- **Visual Alarm Indication:** 120° visibility, 50 ft. range, Blink duration 5-seconds
- **Measurements:** Tilt 5° - 25°, Ambient Air Temperature, Internal Sensor Temperature, Pole Impact
- **Alarms:** Pole Impact, Pole Tilt, Sensor Over Temperature (>80°C internal), Fire Detection, Low Battery, Conductor Sensor (up to 6) Connection Loss
- **Design Life:** 15+ years

## Applicable Standards

- **EMI/RF Standards:**
  - 47 CFR Part 1 & 2 (Max Permissible Exposure for RF emissions)
  - 47 CFR Part 15 (EMI\RFI Emissions)
  - 47 CFR Part 90 (FCC Transmitter Cert)
  - RSS-210
  - RSS-119
  - BLE
  - IEC 61000-4-3 (EMI\RFI Susceptibility)
  - IEC 61000-4-6 (EMI\RFI Susceptibility)
- **Electrical Safety Standards:** IEC 61000-4-2 (ESD)
- **Environmental Standards:**
  - IEC 60068-2-2 (Operating & Storage Temp)
  - IEC 60068-2-30 (Damp Heat Cycle - Relative Humidity)
  - MIL-STD-810F 503.4 (Thermal Shock)
  - MIL-STD-810G 500.5 (Altitude)
  - IEC 60529 (IP Code Testing)
  - IEC 60068-2-5, Procedure B (Solar Radiation)
  - ASTM B117 2.9.2 (Salt Spray)
- **Mechanical Standards:**
  - IEC 60068-2-27 (Mechanical Shock)
  - IEC 60068-2-6 (Mechanical Vibration)
  - ISTA 1A (Transportation Shock & Vibration)
  - IEC 62262 (Impact Resistance)
- **Labeling Standards:**
  - 49 CFR 173.185 for lithium battery marking
  - 19 CFR 134.11 for country of origin marking
- **Additional:** RoHS Compliant but not certified.

## Conductor Sensor Specification

- **Line Frequency:** 50 – 60 Hz
- **Conductor Size:** #8 - 2/0 sizes of distribution conductors.
- **Mounting Method:** Line mounted Hot stick or insulated glove installation
- **Dimensions, case body (L x W x H):** 3.9"x3.4"x4.5"
- **Weight:** 0.60lbs. +/- 0.05lbs.
- **Operating Temperature:** -40°C to +65°C temperature ambient air, (-40°F to +149°F), IEC 60068-2-30 (Damp Heat Cycle – Relative Humidity)
- **Storage Temperature:** -40°C to +85°C, (-40°F to +185°F), IEC 60068-2-2 (Operating & Storage Temp)
- **Operating Humidity:** 0% - 100% condensing
- **Ingress Protection:** IP54 per IEC 60529
- **Materials:** UV stabilized polycarbonate
- **Device Powering:** Non-Replaceable C-Cell Lithium-Thionyl Chloride battery
- **Communication:** Bluetooth Low Energy: 2Mbit/S GFSK
- **BLE Range:** 100 ft. min for direct line of sight
- **RF Output:** 2.402GHz to 2.480GHz: 4.0mW max (6dBm)
- **Antenna:** Internal
- **Fault Current Configuration:** Threshold is configurable locally and remotely
- **Alarm Reset:** Alarm Automatic Reset Time (Fault current), configurable from 1 hr. up to 72 hrs.
- **Visual Alarm Indication:** 120° visibility, 50 ft. range, Blink duration 5-seconds
- **Fault Current Sample Rating:** 200Hz
- **Measurements:** Fault Current, up to 3kA, +/- 20%
- **Alarms:** Line Impact Events, Fault current, Conductor Sensor Over Temperature (>80°C internal), Low Battery
- **Design:** Life 15+ years

## Applicable Standards

- **EMI/RF Standards:**
  - 47 CFR Part 1 & 2 (Max Permissible Exposure for RF emissions)
  - 47 CFR Part 15 (EMI\RFI Emissions)
  - 47 CFR Part 90 (FCC Transmitter Cert)
  - RSS-210
  - RSS-119
  - BLE
  - IEC 61000-4-3 (EMI\RFI Susceptibility)
  - IEC 61000-4-6 (EMI\RFI Susceptibility)
- **Electrical Safety Standards:** IEC 61000-4-2 (ESD)
- **Environmental Standards:**
  - IEC 60068-2-2 (Operating & Storage Temp)
  - IEC 60068-2-30 (Damp Heat Cycle – Relative Humidity)
  - MIL-STD-810F 503.4 (Thermal Shock)
  - MIL-STD-810G 500.5 (Altitude)
  - IEC 60529 (IP Code Testing)
  - IEC 60068-2-5, Procedure B (Solar Radiation)
  - ASTM B117 2.9.2 (Salt Spray )
- **Mechanical Standards:**
  - EC 60068-2-27 (Mechanical Shock)
  - IEC 60068-2-6 (Mechanical Vibration)
  - ISTA 1A (Transportation Shock & Vibration)
  - IEC 62262 (Impact Resistance)
- **Labeling Standards:**
  - 49 CFR 173.185 for lithium battery marking
  - 19 CFR 134.11 for country of origin marking
- **Additional:** RoHS Compliant but not certified.