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Data Sheet
DDS-10003-12

# Sensus NaviComm

## Faulted Circuit Indicator Receiver




**Features**

- **Monitors up to 12 wireless Smart Navigator faulted circuit indicators**
- **Flexible smart utility communication options: FlexNet and/or 4G/LTE cellular data networks**
- **Remote configuration and firmware update capability**
- **Battery backup**
- **Three reporting methods: By exception, time-scheduled, and response to request**
- **Standard protocols ensure interoperability with SCADA systemsocal configuration utility includedSCADA system**

**With the Sensus NaviComm, utilities can realize the vision of a more resilient, automated and smarter grid.**

The NaviComm is a self-contained communicating faulted circuit indicator (FCI) solution developed collaboratively with Power Delivery Products, the leading manufacturer of FCI technology. It identifies momentary or permanent faults while also giving in-depth, real-time access to critical operational and planning information. By monitoring and controlling up to 12 Smart Navigator wireless FCIs placed on overhead distribution lines, utilities receive a complete picture of fault current magnitude and load metrics.

Fault information is delivered using DNP 3.0 protocol, enabling operators to view FCI status within their standard SCADA interface. This interoperability is further extended by giving distribution engineers, planners, and field personnel access to the same information through the AutomationControl™ software suite. This gives operators the grid visibility needed to make informed decisions, per phase, based on real-time data.

### Communication

The NaviComm communicates using the Sensus FlexNet® network or cellular communication networks. Communication between devices is initiated in three ways:

- Automatic reporting upon digital and analog changes (user configurable)
- Time-scheduled reporting, configurable from once every 15 minutes to once every 14 days
- On demand reporting through AutomationControl or the utilities SCADA system

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# Sensus NaviComm - Faulted Circuit Indicator Receiver

## Benefits

- Real-time fault detection including duration and permanent vs. momentary magnitude per phase
- Customizable dashboard interface gives operators information specific to their scope
- Proactively identify potential problems with historical records to improve grid efficiency

## Models

| Model | Radio | Frequency |
|---|---|---|
| 539.65.537.00049 | FlexNet | 900 MHz |
| 539.65.537.00054 | AT&T cellular 4G (LTE) | 700/850/1700/1900 MHz |
| 539.65.537.00061 | Verizon cellular 4G (LTE) | 700/850/1700/1900 MHz |

## Environmental Data

| | |
|---|---|
| Operating temperature | FlexNet: -40° to 185°F (-40° to 85°C) Cellular: -40° to 158°F (-40° to 70°C) |
| Humidity | 5% to 95% non-condensing |
| Radiated emissions | FCC 47 CFR Part 15B and ICES-003 |

## Operating Power

| | |
|---|---|
| General | 100-135 VAC, 60 Hz, 100 mA at 120 VAC |
| Fuse | 250 V, 1.5 A, Slow-Blow |
| Battery | 12-volt @ 0.8 amp hour<br>non-spillable, sealed, lead-acid<br>5 year expected life with automatic charger |
| Battery fuse | 250 V, 2.5 A, Slow-Blow |

## Enclosure

| | |
|---|---|
| Intrusion rating | NEMA 3R |
| Mounting | Brackets suitable for mounting on wood, steel, or concrete poles |
| Grounding | External ground connector |
| Security | Hinged door with padlocking capability |
| Dimensions | See drawings on final page |

## Communications

| | | |
|---|---|---|
| General | Two-way communication | All communications are acknowledged for reliability |
| FlexNet network | Transmit power | 2W |
| | Frequency | 900 MHz, primary licensed |
| | Antenna | Phantom 3.0 dBi |
| Cellular network | AT&T / Verizon | 4G/LTE |
| | Transmit power | 4G: 0.2W (LTE) |
| | Frequency | 4G: 700/850/1700/1900 MHz |
| | Antennas | 4G Multi-Band 3.0 dBi (transmitter and receiver)<br>Ultra Wide Band 5.0 dBi internal diversity (receiver only) |
| Embedded Smart Navigator Controller | Radiated frequency | 2.4 - 2.5 GHz |
| | Transmit power | 1 mW |
| | Wireless range | Approx. 100 ft (30 m) line-of-sight |
| | Antenna | 5 dBi external |
| Local configuration port | | USB 2.0 compliant |

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