

# SmartLink™ Series 5000

## Cellular RTU for Fisher Pierce Faulted Circuit Indicators

The **SmartLink™ Series 5000** is an integrated cellular Remote Terminal Unit that provides reliable and cost effective 2-way communications for automated fault reporting from Fisher Pierce Series 1548 radio FCIs. Electric utility operations personnel can have precise fault alarms and data fed to a variety of applications in seconds, increasing response time and system reliability.

The **Smartlink Series 5000** uses technology from Telemetric to communicate over the digital or analog cellular data networks, with coverage available to over 98% of the population in North America. No additional radio equipment, license or local cellular account is required. The RTU's intelligent processor provides flexible reporting of permanent and temporary fault conditions. Utilities can access a secure web-based fault reporting application or integrate automatic fault reporting into SCADA / EMS systems using optional software from Telemetric.

The secure web-based application displays the device data which can be queried or polled remotely. A variety of user specified fault alarms can be configured to notify a designated person of a reported event by email, pager or text messaging.



### Features and Benefits

- Reports fault alarms from up to four Series 1548 radio FCIs (A, B, C phase + tap) using local RF signal. Radio FCI's may be placed 100' from the RTU.
- Immediate reporting of Alarm Conditions:
  - o Permanent fault on any phase, phase status
  - o Fault Cleared – status by phase
  - o Over or Under-Voltage set points on control power phase
  - o Low Battery Alarm
- Immediate or off-peak reporting of momentary fault data (user configurable).
- Nationwide GPRS support via Cingular Wireless and affiliated roaming partners with a variety of application data plans.
- RTU status points can be queried at any time through the web-based application or by SCADA/EMS using optional Telemetric SCADA-Xchange™ software.
- RTU battery status check and low battery alarms sent automatically.

# Specifications

## Fault Indicator Receiver

Operating Frequency: 312 MHz.  
Receiver Range: 100' minimum typical  
Receiver Sensitivity Adjustment: Selectable via local configuration or web application to max range of local RF radio (low gain, high gain).  
Certification: Complies with FCC part 15 emissions.

## Cellular Radio Technology

Dual-band, dual-mode supporting GSM/GPRS 850/1900 MHz  
Nationwide GPRS support via Cingular Wireless and affiliated roaming partners with a variety of application data plans.  
Transmit power: 0.6 to 1.2 W.  
External mounted antenna, flexible dual-band (850/1900) cellular, SMA(F) connector.  
Fault receiver antenna (312 MHz RF system, BNC connector).

## Measurement Points List - Calls & Polling

- Permanent fault status indication from radio FCI
- Control Power Voltage Measurements : Under/Over Voltage Value Alarm
- Control Power Status (Outage)
- Battery Status
- Temporary Fault Data
- Time Scheduled Calls
- Alarm Calls (permanent fault, clearing, phase status, low battery)
- Polling of all status and analog points

## Intelligent Web Server

- Data is secure and password protected
- Server authentication using 128-bit encryption key validation
- E-mail, text message or pager notification options

## Local Serial Port

RS232 communications port for local configuration.  
Windows based configuration software included with RTU.

## Front Panel LED Indicators

Qty	Color	Label (Indication)
1	Green	Cellular Communication Present
1	Green	Processor OK
4	Red	Fault Received (A, B, C and Tap)
1	Tri-color	Radio Signal Strength Indicator

## Electrical/Environmental

Operating Voltage: 95 – 135 Vac, 60Hz  
Surge Withstand: ANSI/IEEE C37.90.1-2002, 4kV min. @ 1.2/50 us surge  
FNM style Slo-Blo fuse, barrel mounted.  
Operating temperature range: -40 deg C to +70 deg C

## Battery Backup

Standard: Lead Acid, rechargeable 12V (3 to 5 years expected service life.)  
Carryover time: 4-hour typical, 3-hour minimum.  
Recharge time after 3-4 hour carryover: 6 hrs typ.  
Accessibility: Front panel replaceable.  
Status message sent weekly or by request.

## Enclosure

Lexan enclosure for meter socket mounting.  
NEMA 3R Rating  
Security latch for meter seal or 3/8" hasp padlock

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