



Overview

The ProtoCast wireless gateway is a compact, high-performance, fully-configurable, cost-effective gateway that allows any Modbus, analog and digital device interface to communicate to the cloud via Wi-Fi for remote device management, control, alarming and diagnostics.

Each ProtoCast includes browser-based tools to make it easy to set-up and perform diagnostics including determination of status, network settings, node information and more. The FieldCast App makes configuration or diagnostics on the go just a few taps away.

Applications are not limited to, but target the following industries: hot water heaters, value controllers, energy meters, generator sets and motor drive controls. Additional sensors such as temperature/water sensors can be attached via analog or digital interfaces.

Use the SMC Cloud to connect Modbus RTU, analog or digital devices to 3rd party apps such as automation systems, mobile apps for monitoring and other applications.

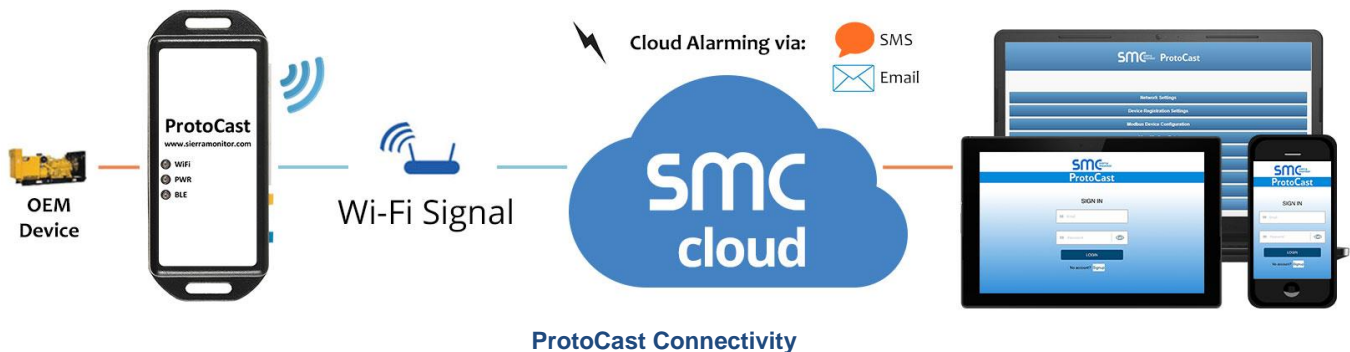
The SMC Live App (available via Google Play or the Apple App Store) enables users to remotely monitor and control their devices through a secure cloud connection, making it easy to support OEM equipment in the field.

ProtoCast Features and Benefits

- Compact form factor (3.8 x 1.6 x 0.8) for installation anywhere on a device
- Connect with virtually any Modbus RTU device out of the box, for Modbus read & writes
- Up to 2 Analog Inputs: Either 4-20mA or 0-10 VDC
- Up to 4 Digital Inputs (voltage free)
- Data point alarming via SMS and/or Email
- Connect to the SMC Cloud via Wi-Fi
- Can convert numerical values to pre-defined state text; up to 100 text entries are supported
- Ability to attach state text to numerical Modbus values
- Ability to load 5 device profiles to ensure the correct profile for the intended connection to an OEM's device
- Allows configuration and monitoring/diagnostics via web interface or dedicated ProtoCast App
- Simple panel mount with wiring harness
- SMC Cloud registration connects your devices to the cloud, allowing secure remote access for diagnostics, monitoring, alarming and configuration
- Wireless harness included

The FieldServer Family Products Offer

- Configured with a robust Modbus RTU driver that is certified to Modbus.org standards
- Over 20 years of experience in the design and manufacture of building automation gateways with thousands of installations
- Trusted, proven technical support before and after shipment



Benefits of the SMC Cloud

- Registering SMC’s ProtoCast Gateways on SMC’s tenant based IoT Cloud Platform, effortlessly connects the OEM’s devices to the cloud, allowing secure remote access for diagnostics, monitoring, alarming and configuration of their products in the field
- SMC’s Cloud Platform Dashboard provides enriched data metrics (averages and real-time values displayed in gauges and graphs) enabling collaboration and comparison across multiple sites
- No annual subscription to connect SMC’s Gateways to the SMC Cloud Platform through 2022



SMC Cloud

The ProtoCast has an embedded web interface for diagnostics, alarming and monitoring.

Modbus Data							
Device State	TX Messages		RX Messages				
ON LINE	51137		51137				
No.	Register Name	Value	Severity	Set Point	Falling	Deadband	
1	Password	0					<input type="button" value="Write Value"/> <input type="button" value="Configure Alarming"/>
2	Burner On Off	203	Warning	200.00	False	205.00	<input type="button" value="Write Value"/> <input type="button" value="Configure Alarming"/>
3	Demand Source	6					<input type="button" value="Write Value"/> <input type="button" value="Configure Alarming"/>
4	CH Setpoint	10211					<input type="button" value="Write Value"/> <input type="button" value="Configure Alarming"/>

Specifications *

Communication

RS-485

- Baud: 4800, 9600, 19200, 38400, 57600, 115200
- Start Bit: 7, 8
- Stop Bit: 1, 2
- Parity: Even, Odd, None

Analog Inputs

-Up to 2 inputs (either 4-20mA or 0-10 VDC)

Digital Inputs

-Up to 4 digital I/O inputs (voltage free)

Environment

- Operating temperature: -40 to 75°C (-40 to 167°F)
- Relative humidity: 5-90% RH non-condensing

Configuration

5 device profiles: 40 points per profile

Physical Dimensions

H x W x D: 3.8 x 1.6 x 0.8 in. (9.6 x 4.0 x 2.0 cm)

Weight: 0.1 lbs. (0.04 Kg)

Power Requirements

- Voltage: 12-24 VDC
- Current draw: @ 12V 100 mA

Other Options

Panel mount

Wi-Fi

- Protocols: 802.11 b,g,n
- Encryption: WPA-2 using AES/CCMP
- Frequency: 2.4 GHz
- Channels: 802.11 b USA & Canada-11, Europe-13
802.11 g USA & Canada-11, Europe-13
802.11 n 1-13

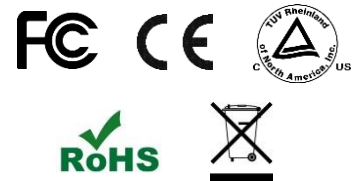
Modulation: DSSS, OFDM for WLAN

Approvals – Pending

CE and FCC

TUV Approved to UL 916, EN 60950-1, EN 50491-3 and CSA C22.2 standards

RoHS and WEEE Compliant



* Specifications subject to change without notice

Ordering Information

- FPA-W10-XXXX: Wi-Fi