

# SFT - BATTERY OPERATED TOTALIZER WITH WIRELESS CAPABILITIES

Ideal when adding flow meters where there is no power - no need to run wires/conduit, installs anywhere in minutes.



## BENEFITS

### Long Battery Life

High-capacity Lithium battery pack powers sensor and radio for years, even in low temperatures. Transmitter can be configured for check-in intervals between 5 seconds to 1 hour to save battery life.

### Attractive ROI

Costs less than running 60 feet of wire & conduit.

### Data at Your Fingertips

Wireless data transmission anywhere in the world with an Internet connection.

### Up and Running in Minutes

Easy thread-in installation. A quick setup procedure allows you to have the unit working with just a few simple programming steps.

### Reliable Transmission

ISM bands sustain signal strength through terrain, structures or weather for a range of up to 1/2 mile.

### Smart Technology

Wireless nodes install themselves into network automatically and adapt to network changes, i.e. data volume, radio transmission conditions and power source conditions.

## FEATURES

- Local display with flow rate totalizer and diagnostics
- Battery-powered electronically optimized for long life (5 years+)
- Integrates with industry-standard turbine and positive displacement meters
- Hazardous location classified for CID1 Intrinsically Safe
- 1/2 mile range
- 1" female NPT coupling with 2 pin connector inductive for magnetic type sensors
- Weather-tight rugged enclosure for outdoor installation
- Easy to install and maintain
- 30-day built in local data history/backup storage

## TECHNICAL SPECIFICATIONS

### Operating Temperature

-40°F to 176°F (-40°C to 80°C)

### LCD Display:

-4°F to 158°F (-20°C to 70°C)

### Power

"D" cell lithium battery pack. Field replaceable

### Battery Life

7 1/2 years of battery life at 5 minute check-in

### LCD Display

32 character display with push button activation

Displays totals, flow rate, and status information

### Sensor Type (SFT-WP only)

Passive Magnetic pickup  
4 KHz Maximum Frequency  
20 mV Minimum amplitude

### Data Update Rates

User-configurable (5 sec - 1 hr)

### Radio Power

40 mW

### Range

Up to 1/2 mile

### Receive Sensitivity

-109 dB

### Radio Frequency

902-928 MHz, ISM, FHSS, FCC Part 15 compliant

### Networks

Up to 64 separate networks

### Intrinsically Safe

Class I Division 1, Temp Code T3, Groups C&D. Conforms to UL Std. 913, Certified to Can/CSA Std C22.2 No. 157

### Security

AES 128bit Encryption

### Real Time Clock

Battery backed up real-time clock

### Internal Diagnostics

Battery voltage, signal strength, error conditions

### Humidity

0% to 100% condensing

### Data Interface

Wireless - Data and Diagnostics available as Modbus registers at GW

### Mechanical Specifications

Enclosure:  
High Strength Polycarbonate

Magnetic Pickup connector:  
Standard 2-pin circular connector  
No Polarity

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## ORDER CODES

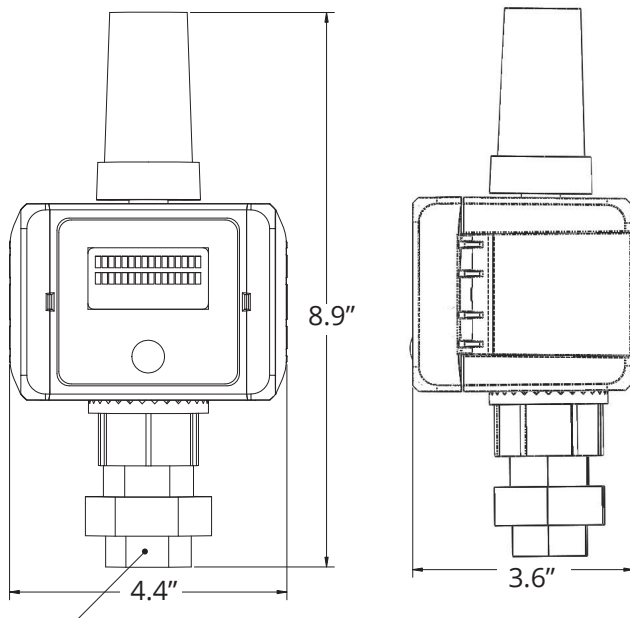
Model Code	Description
SFTtotalizer - 1BIS	Battery operated, intrinsically safe flow totalizer with wireless capabilities for TW turbines
SFT-WP	Battery operated, intrinsically safe flow totalizer with wireless capabilities for TRG turbines and JV gear meters
USB-SERIAL-4PIN	Programming/Setup Cable
Wireless Accessory	
Model Code	Description
GWS-XXX-	Gateway - For specific options consult factory



SFT-WP Totalizer Mounted on a JV20-KG Gear Meter

SFT-WP Totalizer Mounted on a TW Turbine Meter

## DIMENSIONAL DRAWING



1" NPT Female Thread Union Coupling STD  
2-PIN Pickup Connector Included

### For the Wireless Option:

The SignalFire Remote Sensing System consists of nodes attached to sensors that work in a mesh network pattern to send data via Modbus to a Gateway, where it is transferred to a PC, PLC, or other control system.

#### Gateway Interfaces Include:

- HART®
- 4-20mA current loop, 1-5 Volt
- Digital input (state, counter, totals, frequency)
- RS-485/Modbus

Products may be subject to change without notice - Contact factory for the most up-to-date product information.

