

Wireless Flow Totalizer WC30i-TZ



KEY FEATURES

Compatible with standard turbine meter inductive pickups

Local display with flow rate, totalizer, and diagnostics

Provides grand total, yesterday's total, and today's total to individual Modbus registers

30-day built-in local data historian / backup storage

Wireless data interface to standard WC45i-Gateway via robust 900 MHz protocol

Configurable contract hour with real-time clock and battery backup

Configurable K factor

7.5 year battery life

Up to ½ mile range

Weathertight rugged enclosure for outdoor operation

Easy to install and maintain

Class 1 Division 1 Intrinsically Safe

OVERVIEW

Rugged, Simple, Flexible, Value

FreeWave's new WC30i-TZ Wireless Totalizer delivers an intrinsically safe totalizer solution for industry-standard turbine meters. It is easily and quickly installed and deployed at a low-CAPEX or OPEX price point.

The WC30i-TZ Wireless Totalizer connects to industry-standard turbine meters and wirelessly connects to the WC45i Gateway. It features a settable contract hour with a Real Time Clock (RTC) and battery backup. The LED display shows flow rate and totalized readings.

Together with the WC45i Gateway, the WAVECONTACT system is easily and quickly deployed to implement industrial automation where wired installations would be cost prohibitive. The WAVECONTACT System has been designed for deployment in Class 1 Div 1 locations.

TECHNICAL SPECIFICATIONS

TRANSMITTER

Frequency	902–928 MHz, FHSS, Compliant with FCC Part 15
Range	Up to ½ mile

TURBINE METER INPUT

Input Type	Magnetic pickup
Pickup Connector	Standard 2-pin Circular Connector
Minimum Input Voltage:	20mV peak-to-peak (low gain) 5mV peak-to-peak (high gain)
Input Frequency	1Hz to 4kHz (low gain) 1Hz to 2kHz (high gain)

INTERFACES

Data Interface	Wireless, data and diagnostics available as Modbus registers at Gateway
Display	32-character LCD Power-on button activation Displays flow totals, flow rate, and status information

ADDITIONAL FEATURES

Internal Diagnostics	Battery voltage, signal strength, error conditions
Security	AES 128bit Encryption
Clock	Real-time clock with battery backup

POWER REQUIREMENTS

Battery Pack	1 D Lithium battery pack, field replaceable. C1D1 certified when used with FreeWave system. In situ replacement does NOT require a work ticket.
Battery Life	7.5 years with a 5 minute check-in
Radio Power	40 mW

GENERAL INFORMATION

Operating Temperature	-40°C to +60°C
LCD Display Temperature	-20°C to +70°C
Humidity	0% to 100% condensing
Enclosure	High Strength Polycarbonate
Enclosure Size	8.9in. tall × 4.4in. wide × 3.6in. deep
Mounting Connection	316SS, 1" female NPT swivel union connector for direct mount to turbine meter
Safety	Intrinsically Safe Class I Division 1, Groups C and D Temp Code T3 Conforms to UL Std. 913 Certified to Can/CSA Std C22.2 No. 157

INFORMATION TO ORDER

Model Number	Description
WC30i-TZ	Wireless Flow Totalizer

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