

DATASHEET HW5000-FT1







- Works with third-party turbine flow meters
- Provides local reading of flow data Instantaneous rate Totalizer Today's totals Yesterday's totals Modbus error count Modbus status
- RS485 Modbus interface
- Device is fully configurable using the LCD display UI, RS485 Modbus, or the H Series Configuration Software
- LCD is always on with auto-scroll convenience
- Self-contained, rugged design
- 9-30 Vdc external power input
- Installs in minutes
- IP66, -40 °C to 70 °C (-40 °F to 158 °F)
- Class I, Division 1 (Zone 0), Intrinsically Safe















Self-Contained Flow Totalizer with Modbus Interface

Works with a Third-Party Turbine Flow Meter

The OleumTech® HW5000-FT1 Flow Totalizer (Modbus) is designed to work with virtually any third-party turbine flow meter, measuring accumulated flow rates and volume. Real time flow rates and volumes may be accumulated and displayed in barrels, liters, gallons, cubic meters, cubic feet, and 1000 cubic feet per second. Also, may be measured per minute, hour, or day. The push-button LCD interface allows for device configuration and instant access to process data, which is updated every second.

Durable Construction / Class I, Division 1, IS

The HW5000-FT1 Flow Totalizer is certified for use in Class I, Division 1 (Zone 0) hazardous locations. The HW5000-FT1 provides a 2-pin pickup coil connector and a 1-inch mating union for connecting to a turbine meter.



Technical Specifications

HARDWARE FEATURES

Device Functionality · Liquid Flow Totalizer (RS485 Modbus)

Embedded Controller · Ultra-Low Power RISC Microcontroller with Internal FLASH (Field Upgradeable)

Configuration Integral LCD with Push Button Interface or H Series Configuration Software v3.0.0 or later or Modbus

Inputs · 15-3300 mV, 0-10 kHz
Power Source · External 9-30 Vdc Max

Interface · RS485 Modbus

Baud Rate · 1200-57,600 bps

Local LCD Display 32-Character Display (16x2 Lines) with 4 Function Keys, Always On

Instant Displayable Read Flow Rate / Totals / Today's Totals / Yesterday's Totals / Modbus Error Cnt + Status

CERTIFICATIONS & COMPLIANCE

· Class I, Division 1, Groups A, B, C, D T4; Ex ia IIC T4 Ga

· Class I, Zone O, AEx ia IIC T4 Ga

Safety





 \cdot ATEX: Sira 16ATEX2229X; Ex ia IIC T4 Ga

· IECEx: SIR 16.0079X; Ex ia IIC T4 Ga

MECHANICAL SPECIFICATIONS

Dimensions • 5.5" (W) x 13.1" (H) x 4.4" (D) / 140 mm (W) x 333 mm (H) x 112 mm (D)

Package Dimensions \cdot 10.25" (W) x 14" (H) x 6.5" (D) / 260 mm (W) x 356 mm (H) x 165 mm (D)

Package Weight · ~7 lbs / 3.2 kg

Connection Fitting · 1" NPT Female, 1" Mating Union to Flow Turbine Included

Enclosure Casing Material Type 4X Aluminum; IP66
Mating Assembly 304 Stainless Steel

With this 7.55 cmbry 504 Statille 55 Steel

Magnetic Pickup Coil

- 2-Pin Circular Connector (Part # MS3106A-10SL-4S)

ELECTRICAL SPECIFICATIONS

DC Power Input · 9-30 Vdc (30 V Max)

Current Consumption · 25 mA Peak / 1.5 mA Idle

Multi-Drop Max Consumption $\,\cdot\,$ 54 mA Maximum based on 16 Sensors Multi-Dropped

IS Safety Protection · Barrier Board (See Part Numbers under Ordering Information)

GENERAL SPECIFICATIONS

 \cdot Ambient Temperature (Class I, Division 1): -40 °C to 70 °C (-40 °F to 158 °F)

Operating Conditions \cdot LCD Screen -20 °C to 70 °C (-4 °F to 158 °F)

· Humidity: 0 to 99 %, Non-Condensing

Warranty · 2-Year Parts and Labor

Country of Origin · USA

ORDERING INFORMATION

Model Number · HW5000-FT1

· 12 V Kit: SX1000-B12, RS485 Module (61-6002-001) + 12 V Module (61-6003-001)

· 24 V Kit: SX1000-B24, RS485 Module (61-6002-001) + 24 V Module (61-6004-001)

· H Series Configuration Kit (SX1000-CC8), Optional Configuration Kit

· OleumTech All-in-One Cable (SX1000-CC2), Required for Firmware Upgrade Procedure



