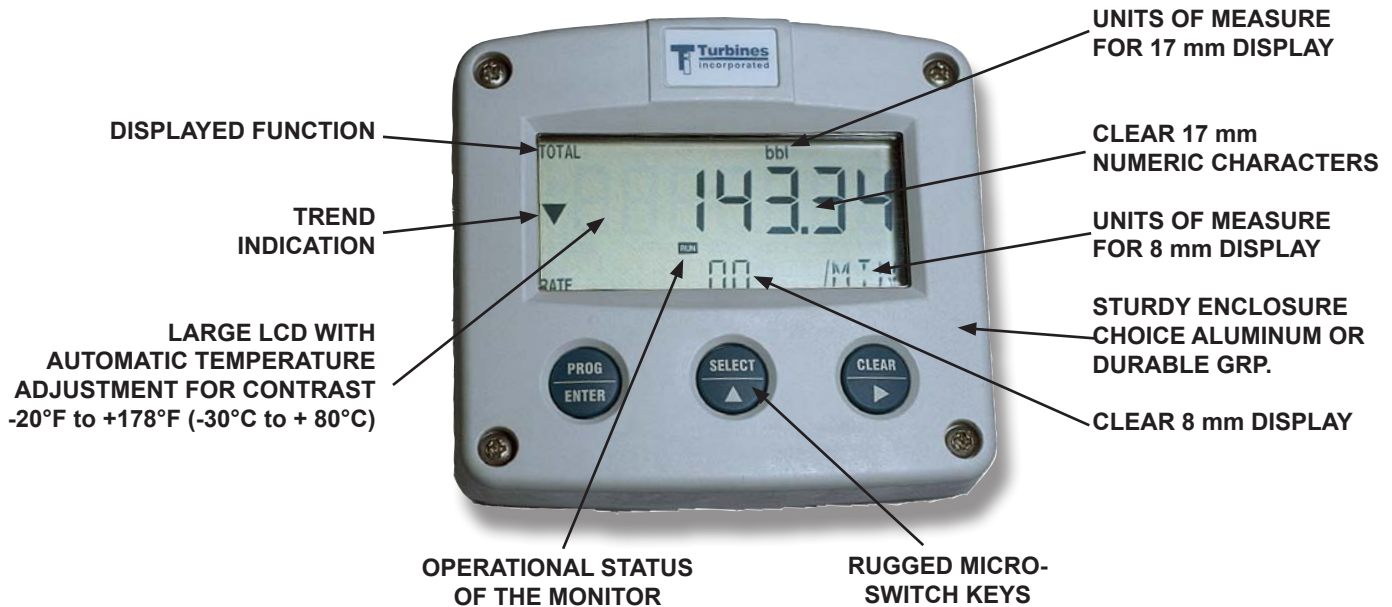


**The Series FW Flow Monitor**



**General Description**

Turbines Incorporated is an original equipment manufacturer located in the United States of America, specializing in the design, marketing, sales, service and manufacture of a full line of high accuracy turbine type flow meters and associated flow monitor products and accessories.

In order to optimally realize the full performance potential of the turbine flow meter driving your flow measurement system, proper selection of the flow monitor to be used, is critical. The technical specifications of the flow monitor must be balanced with the application objectives and the cost, in order to obtain an installation that will satisfy the full range of requirements that govern any flow measurement installation.

Turbines, Incorporated provides a variety of flow monitor options that offer ideal compatibility with a range of intended applications.

The Turbines, Inc. FW Series of flow monitors provides a host of features, many of which are appropriate for industrial flow measurement applications, as well as agricultural, commercial, water flood and other oil & gas production needs prevalent within these industries today.

This state of the art, digital, feature rich, ruggedly built product is the first of a growing line of flow monitors under development at Turbines, Inc., And will provide the performance you need at a surprisingly economical cost.

**The FW Series**

The FW Series of digital flow monitors, presently includes the basic FW-F012P and the FW-F012PHA, both of which are especially designed for computing and displaying total and instantaneous flow rate in fluid flow applications. The FW series of flow monitors are intrinsically safe and carry all necessary industry ratings consistent with use in the USA, Europe or Canada (see next page.)

A prominent and immediately striking feature of these units is the large transreflective LCD display that makes reading the instantaneous or totalized flowrate indication very easy even at a distance. Flow trend indication is an important feature as well. Additional features that are making this one of the most popular flow monitors in the business, are the user friendly 3 button programmability and one button access for secondary accumulated total indication. All settings and data are automatically backed up on the EEPROM.

Please contact your Turbines, Incorporated applications group specialist for assistance in determining the best Turbines, Inc. flow monitor for your particular application requirements.

**FOR BEST RESULTS USE  
 THIS PREMIUM MONITOR WITH  
 THE FULL LINE OF TURBINES, INC.  
 TURBINE FLOW METERS!**

Please see reverse side



Our Quality Management System is registered to ISO 9001:2000 And AS: 9100 Compliant



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 FAX: 580-477-3071  
 TOLL FREE: 1-800-809-1387  
 www.turbinesincorporated.com  
 e-mail: karen@turbinesincorporated.com

**Typical Mounting Arrangements**



Direct mounting on flow meter



Pipeline mounting (vertical or horizontal)

...The new Turbines, Inc. FW series monitor is one of the most attractive, easy to use, rugged, durable and feature rich monitors on the market today.

Whether intended for the typically harsh environments of oilfield use, or the relatively more friendly environment of commercial or industrial use, the Turbines, Inc. FW series monitor stands head and shoulders above the rest.

It is hard to believe that such a benchmark unit can be so economical as well.

This unit is taking the market by storm.

**The Series FW Flow Monitor**  
Technical Specifications

**Display:**

Large high intensity transreflective LCD 40 x 90 mm with seven 17mm digits and eleven 8mm digits. Automatic contrast adjustment for temperature variations.

**Control Panel:**

Three micro-switch keys with UV - resistant polyester key pad.

**Enclosure:**

Polycarbonate window.

UV - resistant coated aluminum enclosure with stainless steel bolts (F012P-HA.)

Optionally available in all ABS enclosure (F012P.)

**Mounting Arrangement:**

Suitable for direct mount is standard. Optionally available wall mount, horizontal or vertical pipe mount and panel mount.

**Gross Dimensions:**

T130 x 114 x 58 mm (5.1' x 4.5' x 2.3' L x H x D.) Panel cut-out requirements (115 x 96 mm.)

**Operating Temperatures:**

T:-30°C to +80°C (-20°F to +178°F.)

**Battery:**

Lithium-lifespan dependent upon settings; Average life up to seven years.

**Configuration:**

Performed at SET-UP level. Each function displayed in understandable texts. All settings programmable; NO mechanical DIP-switches.

**Password:**

SET-UP level password protected.

**Data Protection:**

EEPROM backup of all settings. Backup accumulated total every 1 minute. Data retention 10 years.

**Selection Main Functions:**

Total or Flow rate will be displayed with 17mm digits.

**Approvals and Certifications:**

CSA approvals available where necessary.

Intrinsically safe design;

F012P - ABS IP65 / NEMA 4

F012P-HA - IP 67 / NEMA 4

**The Series FW Flow Monitor**  
Directory of Available Models

**FW - F012P Standard Unit:**

Incorporates all main features and basic functions listed above, in an ABS enclosure.

**FW - F012P-HA Standard Unit with Aluminum Enclosure:**

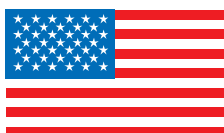
Incorporates all main features and basic functions listed above but with Aluminum Enclosure.

All Turbines, Inc. Monitors are equipped with direct mounting fitting permitting installation on standard turbine flow meter hub and mag pickup assembly.

For remote mount installation, extension cables (wiring harness) are optionally available.

Suitable preamplifiers are optionally available if required for extensive remote cabling.

Units incorporating broader feature set including batch controllers, modbus, and dual input capability are also available. Contact your Turbines, Inc. authorized distributor or representative for more information.



PROUDLY MANUFACTURED  
IN THE UNITED STATES  
OF AMERICA

**PLEASE NOTE:** Use this data as general application guidance for the equipment and/or services referenced herein. Users may reasonably expect this disclosure to constitute an accurate factual representation at the time of publication, however all data and specifications contained herein are subject to change without prior notice. CONTACT MANUFACTURER AT TIME OR ORDER FOR CURRENT SPECIFICATIONS.



ISO 9001:2000

Our Quality Management System is  
registered to ISO 9001:2000  
And AS: 9100 Compliant



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