

Indicators
Totalisers
Transmitters
Flow Computers
Batch Controllers
PID Controllers
Monitors
Displays

FOR
Flow
Level
Pressure
Temperature





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Flowmeter mounting



Pipeline mounting



Wall mounting



Pipeline mounting kit

Introduction

The F-Series product range offers you an extensive selection of indicators, controllers and monitoring systems for liquid and gas flow applications as well as for level, pressure and temperature measurement. Exceptional functionality in a well designed sturdy industrial enclosure has ensured that the F-Series has become a very popular range of local indicators, controllers and signal transmitters.

Industrial applications

The F-Series has been developed for typical industrial environments. It is rugged and weather-proof through its coated aluminum IP67 / NEMA 4X field enclosure. More cost effective, but industrial, the GRP enclosure offers the same ingress protection rating and is ideal for salty atmospheres. The enclosures can be mounted directly onto sensors, walls or pipes but are also suitable for panel mount applications with one major advantage: it requires minimal depth clearance. The operational temperature specification of the product ranges from -40°C to +80°C (-40°F to +178°F).

Operational

Fluidwell is acutely aware of the excessive amount of equipment which today's technicians need to control. For this reason, a clear user-friendly menu structure was developed: all models are programmed in the same logical manner. The configuration of the unit is completely menu-driven with understandable texts avoiding confusing abbreviations. The Operators main information is displayed with large 17mm (0.7") or 26mm (1") digits and 8mm (0.3") alphanumeric characters. For those applications where readability during day and night is an issue, an adjustable bi-colour backlight is available.

Product configuration

The F-Series functionality is based on two main hardware platforms:

- F0 platform: The products offer one signal input and can have one pulse, alarm or control output. This is our basic product range.
- F1 platform: The products have one or more signal inputs, multiple pulse / control / alarm outputs, analog output and communication option. This is our advanced product range.

Both platforms share the same technology, enclosures and display but are dedicated to their typical functionality. In addition to the extensive selection of models, a wide range of options and are available for the F-Series.

Power management

During the development of the F-Series products, ultra-low power consumption was a key-requirement. Thanks to recent advancements in CMOS technology, Fluidwell has extended the battery life significantly and introduced several smart power-management functions. Result: a battery lifetime of seven years can be achieved. Additionally, several alternative means of powering the F-Series are available: loop-powered, 8 - 24V DC, 24V AC and 115-230V AC. The concern of losing data in the event of sudden power loss or during battery replacement is ensured with the EEPROM memory: all settings and actual totals are safely stored.



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Input features

The following signals types can be processed with the F-Series:

- Flow-measurement: turbine sine wave (coil) pick-ups, reed-switches, hall-effect sensors and other active or passive NPN / PNP pulse signals, NAMUR sensors and 2 or 3 wire (o)4 - 20mA or 0 - 10V DC.
- Level measurement: 2 or 3 wire (o)4 - 20mA or 0 - 10V DC signals and 0 - 20KOhm resistance arrays.
- Pressure measurement: 2 or 3 wire (o)4 - 20mA or 0 - 10V DC signals.
- Temperature measurement: 2, 3 or 4 wire PT100 (PRTD) elements, thermocouple as well as 2 or 3 wire (o)4 - 20mA or 0 - 10V DC signals.

Linearization of the input signal, data filter functions and square root calculation are all available to process the input signals.

Output features

Related to the functionality of the selected model, the following output features are available:

- Analog output proportional to the flow rate, level, differential, ratio, temperature, pressure or position. This turns the unit into a powerful transmitter with a local display. The active, passive or isolated (o)4 - 20mA or 0 - 10V DC analog output can also be used to control actuators with the PI(D) controllers.


- Transistor or relay outputs for high and low alarms, scaled pulse output, flow-direction as well as the control of valves / relays in batch and level control applications.
- The RS232, RS485 or TTL interface makes it possible to communicate remotely, even with the battery-powered unit. All software parameters can be monitored and modified in addition to the usual transfer of data using the Modbus protocol.

Hazardous area installation


The F1-Series can be supplied certified Intrinsically Safe to ATEX and IECEx.

The basic Fo-Series have got the following certifications with an ambient temperature of -40°C to +70°C (-40°F to +158°F).

- The ATEX markings for gas and dust applications are:

 II 1 G Ex ia IIC T4
II 1 D Ex iaD 20 IP 65/67 T 100 °C.

- The IECEx markings for gas and dust applications are:
Ga Ex ia IIC T4 and Ex iaD 20 IP 65/67 T 100 °C.
- The CSA c-us and FM markings are: Class I/II/III, Division 1, Groups A, B, C, D, E, F, G, Temperature class T4 and Class I, Zone o, AEx ia IIC T4.

An explosion-proof enclosure is for both series available which is certified in accordance to ATEX  II 2 EEx d IIB T5. For more information, visit our website: www.fluidwell.com or request the F-Series Product Catalog.

5½ clear 26mm (1")
alphanumeric characters

status

Pie-graph with
ten segments



operational temperature
-40°C to +80°C
(-40°F to +178°F)

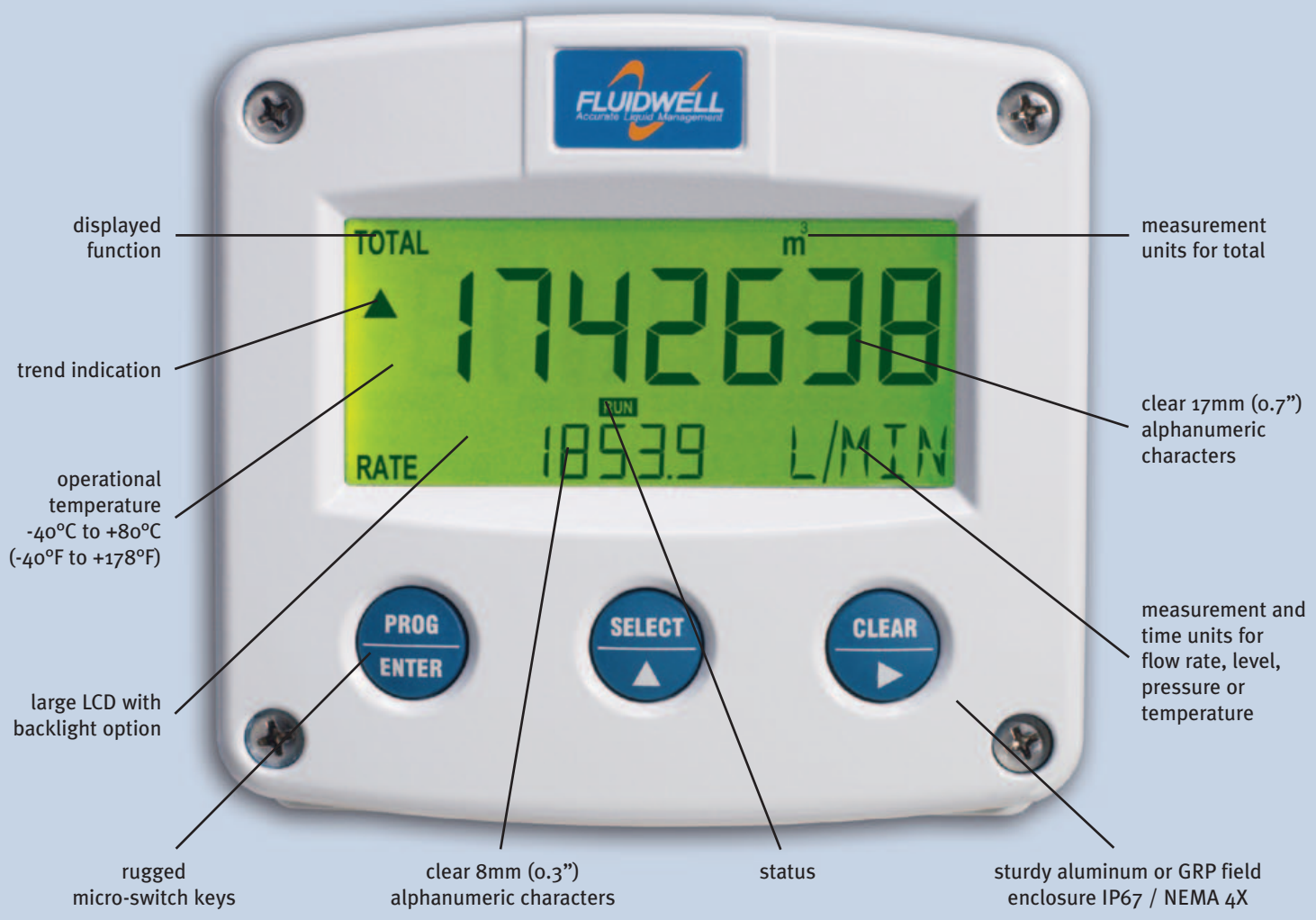
measurement and time
units for flow rate,
pressure or temperature

clear 8mm (0.3")
alphanumeric characters



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Standard display - actual size



Fluidwell bv
 P.O. Box 6
 5460 AA Veghel
 The Netherlands

Phone +31 (0)413 343 786
 Fax +31 (0)413 363 443

sales@fluidwell.com
 www.fluidwell.com

Distributor:



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