



Flow Differential Pressure Module

FDPM® MK II

Automatic Calculation of Corrected Differential Pressure for Varying Flow Rates

Calculates the corrected differential pressure across the cartridges in systems being operated at less than maximum rated flow on mobile or fixed filter vessels.

DESCRIPTION

The FDPM® MK II builds on its field tested predecessor. Designed to comply with the requirements of industry standards such as ATA 103 and JIG Guidelines, the FDPM® MK II eliminates this normally complicated calculation by automatically calculating the condition of the filters inside a vessel based on the inputs from differential pressure and flow-rate sensors. FDPM® MK II can be used with either mobile or stationary equipment.

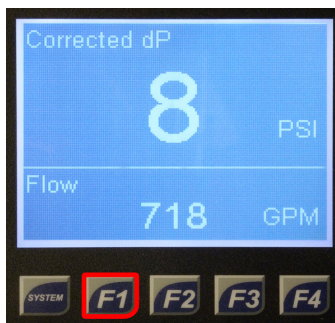
- Designed with ATA 103 & JIG Guidelines data collection requirements in mind
- Removes human judgment regarding condition of filters
- Simplified for the refueling operator yet highly configurable by the fuel master
- Interactive touch screen display enables easy operation even for gloved users
- Condition based alarms can be set to halt the fueling operation
- Intelligent detection of sudden increases or decreases in differential pressure
- Security codes prevent resetting of key values by unauthorized personnel
- Over 3 years of data logging automatically stored via a MicroSD card



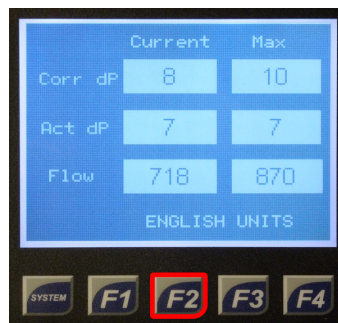
DISPLAY OUTPUTS

- Corrected DP
- Actual DP
- Flow Rate
- Peak corrected and actual DP
- DP rise or drop alarm

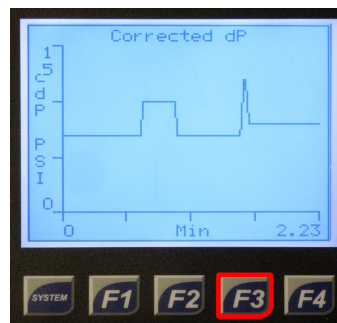
INTERACTIVE TOUCH SCREEN DISPLAY



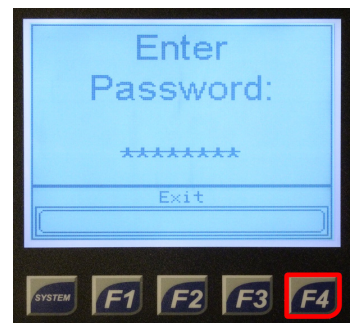
F1- Corrected dP and Flow Information



F2- Tabulated Averaged and Maximum Values for the Refueling Session



F3- Real-time Corrected dP Chart



F4- Supervisor Menu

Patent Pending
FDPM® is a registered trademark of Velcon Filters, LLC.

PRODUCT SPECIFICATIONS

Inputs

- 12 -24VDC, 300 mA (Power), AC/DC Converter
- Flow Rate Input: 0-8 Volts Minimum (24 Volts Max)
- One of the Following:
 - 2 Pressure Transducers: 4 -20 mA
 - 1 Differential Pressure Transducer: 4 -20 mA

Deadman Switching Relay

3A @250 VAC Max

Visual Outputs/Indicators

- Interactive Touch Screen
- Daylight Readable
- Optional Amber Light: Warning Indicator
- Optional Red Light: Critical Indicator
- Corrected Differential Pressure
- Actual Differential Pressure
- Flow Rate
- Peak Corrected and Actual Differential Pressure
- Real-Time Corrected Differential Pressure Charting
- Sudden DP Rise or Drop Alarm

Data Logging

- Removable Micro SD Card (Included)
- >36 Months Data (MS Excel Compatible)
- 60 Second Logging Interval (User Configurable)
- Data Download via USB (Optional)

Data Outputs

RS232 (ASCII Serial Data Stream)

Measurement Units

PSI, USGPM
BAR, LPM

Alarm triggers

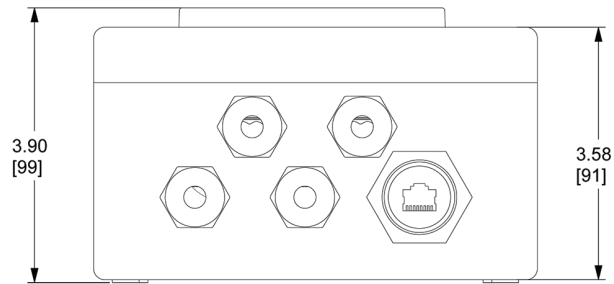
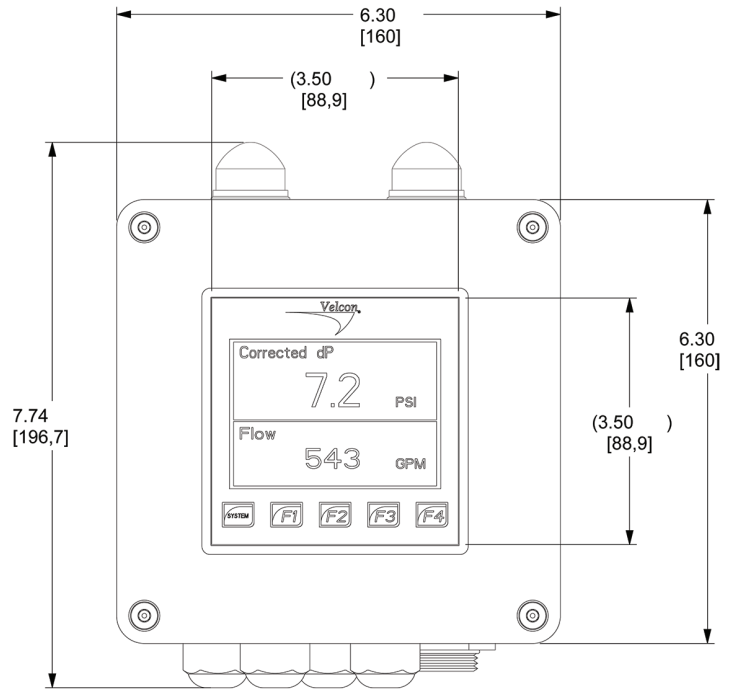
- Warning Alarms (Amber Light)
 - 12 PSI or 0.8 BAR (User Configurable)
 - Pressure Greater than the System Rating
 - Change in DP (User Configurable)
- Critical Alarms (Red Light)
 - External Switch Relay (Deadman)
 - 15 PSI or 1.0 BAR (User Configurable)
 - Change in DP (User Configurable)

Weight

4 pounds (1.8 kg)

Safety/Compliance

IP 65
NEMA 4X
ATEX Directive Class 1 Zone 2 Group D



Dimensions - Inches [mm]

PRODUCT OPTIONS

Pressure Sensors

- 2x Pressure Transducers
- 1x Differential Pressure Transducers
- Pressure Transducer Metric Adaptor

Flow Sensor

Flow Meter (Insertion, Paddle Wheel)


Integration Extras

- Various wired and wireless data transmission options
- AC/DC Converter

Display

- Amber Warning Light
- Red Warning Light

Fleet Configuration Kits (for large fleets)



Velcon products are sold and serviced by a world-wide representative network. To order, contact Headquarters or your LOCAL REPRESENTATIVE:

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