

EAGLE E-SERIES® - EFM ELECTRONIC FLOW METER (ORIFICE / HONEYWELL MVT)

HIGHLIGHTS

- Integrated Multi-Variable Transmitter (Uni & Bi-Directional Flow Ready)
- Multi-Meter Run Capable
- Connectivity to GC's, Analyzers via Serial or Ethernet Connectivity
- Measurement based on AGA & API standards
- Flexible Configuration & Ease of Operation
- Programmable for wide range of applications
- MODBUS Protocol Ready



APPLICATIONS

- Custody Transfer Integrity
- Circular Chart Replacement
- Complete Well Pad Automation
 - Measurement
 - Emergency Shutdown
 - Flow Sequencing
 - Tank Battery Levels
 - Compliance Alarming
- Plunger Lift
- Storage Well Automation



Field to Front Office Solutions™

TECHNICAL SPECIFICATIONS

Features

- Enclosure: Rugged, UV Resistant Polycarbonate, Hinged & Lockable
- Mounting: Pole, Wall
- Integrated Static Pressure Transducer (PSIA or PSIG)
- Integrated Temperature Probe (Various Lengths)

Display Options

- Single Line Alphanumeric Static
- Four Line Alphanumeric Scrolling
- Mag Scroll or Optional Push Button

Operating Temperature

- -40°C to +70°C (-40°F to +160°F)

Power

- Input Power: 7 to 30 VDC
- Integrated Solar Charger: up to 20W

Performance

- Processor: ARM-Dual Core 32 Bit at 48 MHz
- SRAM Memory: 4MB
- SPI Flash Memory: 4MB
- Support for Months / Years of Data Storage, Dependent on Configuration
- A/D: 16-Bit Analog to Digital Conv. with Optional HART Filtering
- Serial Speeds up to 921600 BPS may be Limited by Field Hardware

Accuracy (Flow Temperature Range: -40 to 160°F, Accuracy: +/- 1°F)

Honeywell MVX800 Series MVT

- Static Pressure (SP):
 - MXG870 (4500 PSIG)
 - MXA845 (1500 PSIA)
- Differential Pressure (DP): +/- 400" H2O
- Reference Accuracy: (SP) 0.0375%, (DP) 0.04%

Honeywell MVX700 Series MVT

- Static Pressure (SP):
 - MXA745 (1500 PSIA)
- Differential Pressure (DP): +/- 400" H2O
- Reference Accuracy: (SP) 0.0550%, (DP) 0.0525%

Note: Please refer to transmitter manufacturer documentation for full transmitter accuracy specifications. Available upon request.

AVAILABLE INPUT & OUTPUT (I/O)

Available On-Board

- Optional USB Host & USB Device Ports
- Optional Ethernet Port (8 - Simultaneous)
- (2) Serial Ports (RS232 / RS485) with On-Board Power Control for Communications Devices
- (4) Analog Inputs (4-20mA / 1-5VDC) with Optional HART filtering
- (1) RTD (Temperature Probe)
- (2) Form A / Form C Pulse Input
 - High and Low Speed Operation

(2) Form C Solid State Relays

- (2) Digital Outputs
- (2) Digital Inputs

Optional Expansion Modules

- Serial Port (RS232 / RS485) with On-Board Power Control for Comm Devices (9010552)
- 3 Channel Analog Output Module (9010551)
- 8 Channel Optically Isolated Digital I/O Module (9010534)

Optional Extender Board (9010499)

- (2) Serial Ports (RS232 / RS485)
- (4) Analog Inputs (4-20ma / 1-5VDC)
- (1) RTD (Temperature Probe)
- (2) Form A / Form C Pulse Input
 - High and Low Speed Operation
- (3) Digital Outputs
- (3) Digital Inputs
- (2) OPTO 22 G4 Package Slots
 - IAC, IDC, OAC, & ODC
- (1) Analog Output (4-20ma/1-5VDC)

COMMUNICATIONS & DATA COLLECTION



- USB & Serial Field Laptop Interface
- Ethernet TCP-IP (Supports Simultaneous Connects)
- Land Line Telecom Modem
- Cellular
- Satellite (LEO & GEO)
- Radio (Spread Spectrum & Licensed Frequency)
- Protocols: ERC-HexASCII (Native), MODBUS, & MODBUS TCP

EAGLE E-SERIES™ - EFM ELECTRONIC FLOW METER (ORIFICE / YOKOGAWA MVT)

HIGHLIGHTS

- Full AGA & API Compliance & Support
- Integrated Multi-Variable Transmitter (Uni & Bi-Directional Flow Ready)
- Multi-Meter Run Capable
- Connectivity to GC's, Analyzers via Serial or Ethernet Connectivity
- Flexible Configuration & Ease of Operation
- Programmable for wide range of applications
- MODBUS Protocol Ready



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- Custody Transfer Integrity
- Circular Chart Replacement
- Complete Well Pad Automation
 - Measurement
 - Emergency Shutdown
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- Plunger Lift
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Field to Front Office Solutions™

TECHNICAL SPECIFICATIONS

Features

- Enclosure: Rugged, UV Resistant Polycarbonate, Hinged & Lockable
- Mounting: Pole, Wall
- Integrated Static Pressure Transducer (PSIA or PSIG)
- Integrated Temperature Probe (Various Lengths)

Display Options

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- Mag Scroll or Optional Push Button

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- Input Power: 7 to 30 VDC
- Integrated Solar Charger: up to 20W

Performance

- Processor: ARM-Dual Core 32 Bit at 48 MHz
- SRAM Memory: 4MB
- SPI Flash Memory: 4MB
- Support for Months / Years of Data Storage, Dependent on Configuration
- A/D: 16-Bit Analog to Digital Conv. with Optional HART Filtering
- Serial Speeds up to 921600 BPS may be Limited by Field Hardware

Accuracy (Flow Temperature Range: -40 to 160°F, Accuracy: +/- 1°F)

Yokogawa EJX910A Series Multivariable Transmitter

- Static Pressure (SP): 0 to 3600 PSIA
- Differential Pressure (DP): EJX910A-M(M1244NP) -400 to 400" H2O
- Differential Pressure (DP): EJX910A-H(M1244NQ) -2000 to 2000" H2O
- Reference Accuracy: (SP) 0.1% of span, (DP) 0.04% of span

Note: Please refer to transmitter manufacturer documentation for full transmitter accuracy specifications. Available upon request.

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Available On-Board

- Optional USB Host & USB Device Ports
- Optional Ethernet Port (8 - Simultaneous)
- (2) Serial Ports (RS232 / RS485) with On-Board Power Control for Communications Devices
- (4) Analog Inputs (4-20mA / 1-5VDC) with Optional HART filtering
- (1) RTD (Temperature Probe)
- (2) Form A / Form C Pulse Input
 - High and Low Speed Operation

- (2) Form C Solid State Relays
- (2) Digital Outputs
- (2) Digital Inputs

Optional Expansion Modules

- Serial Port (RS232 / RS485) with On-Board Power Control for Comm Devices (9010552)
- 3 Channel Analog Output Module (9010551)
- 8 Channel Optically Isolated Digital I/O Module (9010534)

Optional Extender Board (9010499)

- (2) Serial Ports (RS232 / RS485)
- (4) Analog Inputs (4-20ma / 1-5VDC)
- (1) RTD (Temperature Probe)
- (2) Form A / Form C Pulse Input
 - High and Low Speed Operation
- (3) Digital Outputs
- (3) Digital Inputs
- (2) OPTO 22 G4 Package Slots
 - IAC, IDC, OAC, & ODC
- (1) Analog Output (4-20ma/1-5VDC)

COMMUNICATIONS & DATA COLLECTION



- USB & Serial Field Laptop Interface
- Ethernet TCP-IP (Supports Simultaneous Connects)
- Land Line Telecom Modem
- Cellular
- Satellite (LEO & GEO)
- Radio (Spread Spectrum & Licensed Frequency)
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