

Zedi Field Gateway

Technical Specifications

Gain access to your operational data when and where you want it.

All the benefits of advanced technology while reducing your operational costs. Accessing even your most remote landscapes, with the most difficult terrain, is now easy!

Zedi Field Gateway 400 (FG-400) Specifications

| | |
|----------------|---|
| Kernel: | Linux |
| CPU: | ARM9 with math coprocessor |
| Memory: | 64MB DRAM |
| Ethernet: | 10/100 with auto-mdx |
| 2 RS-232 ports | (1 RJ-45, 1 terminal block) |
| 1 RS-485 port | (terminal block) |
| Voltage Input: | 8-30 Vdc *Exception: Parts 18179 & 18578 limited to less than 20 Vdc |
| Voltage Output | 8 to 30 Vdc, 1.5 A max |
| Aux out: | 5.0Vdc, 500mA. Software selectable |
| RTC battery: | 3V Li/MnO2 |
| Ambient Temp: | -40° to 75° C (-40° to 165 °F) |
| Cell: | HSPA+ (800/850, AWS1700, 1900) North America HSPA+ (800/850, 900, AWS1700, 1900, 2100) Global GSM/GPRS/EDGE (850/900/1800/1900) |
| Size: | (W x D x H): 13.4 cm x 12.3 cm x 2.8 cm (5.25 in x 4.83 in x 1.12 in) |
| Weight: | 0.34 kg (0.75 lb) |

CSA Certified for Hazardous Areas

- Class I, Zone 2, AEx nA IIC T4 Gc
- Ex nA IIC T4 Gc
- Condition of Certification

The equipment must be installed in an IP54 enclosure as per CSA/UL 60079-15 upon final installation

FCC Part 15 Subpart B, ICES-003

PTCRB Certified

Bringing oil and gas production data mobility to our market leading platform



FG-400

Zedi Field Gateway 600 (FG-600) Specifications

| | |
|----------------|---|
| Kernel: | Linux |
| CPU: | ARM9 with math coprocessor |
| Memory: | 64MB DRAM |
| Ethernet: | 10/100 with auto-mdx |
| 2 RS-232 ports | (1 RJ-45, 1 terminal block) |
| 1 RS-485 port | (terminal block) |
| Voltage Input: | 8-30 Vdc, Exception: Parts 18180 & 18579 limited to less than 20 Vdc |
| Voltage Output | 8 to 30 Vdc, 1.5 A max |
| Aux Out: | 5.0Vdc, 500mA. Software selectable |
| RTC battery: | 3V Li/MnO2 |
| Ambient Temp: | -40° to 75 °C (-40° to 165 °F) |
| Cell: | HSPA+ (800/850, AWS1700, 1900) North America HSPA+ (800/850, 900, AWS1700, 1900, 2100) Global GSM/GPRS/EDGE (850/900/1800/1900) |
| Size: | (W x D x H): 13.4 cm x 5.1 cm x 2.8 cm (5.25 in x 4.83 in x 2.0 in) |
| Weight: | 0.50 kg (1.1 lb) |



CSA Certified for Hazardous Areas

- Class I, Zone 2, AEx nA IIC T4 Gc
- Class I, Division 2, Groups A, B, C, D T3C (FG-600)
- Ex nA IIC T4 Gc
- Condition of Certification

The equipment must be installed in an IP54 enclosure as per CSA/UL 60079-15 upon final installation

FCC Part 15 Subpart B, ICES-003

PTCRB Certified



Hardware



Software



Analytics



IoT



Service

Zedi Field Gateway 600 (FG-600) Specifications

Analog Inputs

| | |
|------------------------|--|
| Quantity | Eight Channels |
| Type | Single-ended, voltage-sense analog inputs with a software configurable termination resistor for current loop |
| Resolution | 16 bit |
| Input Range | Software-configurable as 0 to 5Vdc or 4 to 20mA with the 250Ω termination resistor selected |
| Isolation Protection | None Current Limit Protection on loop power output Surge protection on all inputs |
| Reference Loop Voltage | Accuracy @ 20°C (68°F) ±0.1% Software configurable 24V or 12Vdc @ 500mA maximum |

Digital Inputs

| | |
|-------------|--|
| Quantity | Sixteen Channels (8 shared with Analog Inputs) |
| Input Range | 0 to 5Vdc |
| Protection | Surge protection on all inputs |

Digital Outputs

| | |
|----------------|---|
| Quantity | Eight Channels (shared with Digital Inputs) |
| Type | Field Effect Transistor |
| Contact Rating | 30Vdc, Sink up to 1A per channel |

RTD Inputs

| | |
|-------------------------|---|
| Quantity | Two Channels |
| Type | 4-wire, 100 Ω platinum type RTD, using a 16-bit A/D |
| Default Range | -40°C to 400°C (-40°F to 752°F) |
| Temperature Coefficient | alpha of 0.00385 |
| Accuracy at 20°C (68°F) | 0.1% |



Tank Monitoring & Alarming



Generator Monitoring



Compressor status

Securely begin your oil and gas production digital transformation with cloud based Zedi Access that is loaded with the features and support you need.

Join the Journey

Expedite your digital transformation journey to an autonomous oil and gas operation with Emerson's Zedi Cloud SCADA Solutions. Our proven hardware and software, backed by our team for answers to every producer's need for stronger, long term returns provide scalable solutions to fit your project size, and growth while increasing the reliability of your assets with improved focus on health, safety and environment.

Manage and optimize remotely to drive digital transformation in your operation

- Complete, clear data
- Easily set smart alarms
- Predictive intelligence
- Self correcting optimization
- Continuously modulated control
- Exception based safety systems
- Zedi Access software
- Zedi Go mobile app
- 24/7/365 Customer Care

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