



The Falcon F-Series includes the F1000 and F3400 monitoring systems. Each of these stand alone, integration-friendly systems provides equipment protection by monitoring critical operating and environmental parameters in enterprises, communication rooms, unmanned facilities, and critical support systems.

The F-Series systems are ideal for monitoring analog, digital (dry contact), or thermistor output signals from devices such as temperature sensors, humidity sensors, gas detectors, smoke detectors, fire suppression systems, surveillance products, leak detection systems, power monitoring systems, uninterruptible power supplies, PDUs, generators, DC power plants, commercial power, HVAC units, ATSS and TVSSs.

The F1000 and F3400 operate via embedded firmware that handles all data collection, alarm reporting, and multiple concurrent communication mediums. The embedded firmware enables system configuration, I/O setup, status inquiries, alarm reports, data logs, and troubleshooting without purchase of additional software. Both systems operate with any web browser, or through direct connect application software such as HyperTerminal.

Redundant alarm notification is possible with both F-Series systems via e-mail, SNMP, and paging. Both systems can send email to up to four recipients. Also, with an optional internal PPP enabled modem, direct dial out to up to four phone numbers is possible.

Both the F1000 and F3400 accommodate up to 4 analog, 4 digital (dry contact) or thermistor signals, as well as 2 relay outputs. What sets the two systems apart is that the F3400 allows for an additional 24 digital inputs. Contact RLE for assistance in selecting the system that best suits the monitoring needs of your critical infrastructure.

Key Features & Benefits

- Versatile monitoring of environmental control devices via digital, analog, or thermistor input signals
- F1000 - 8 inputs; F3400 - 32 inputs
- Convenient viewing of the 100 most recent alarms from any web-browser
- Modbus 'plug-and-play' (PnP) for easy integration with RLE Modbus-enabled equipment
- Fully Network Management System (NMS) manageable with SNMP, Get, Sets, Traps and Informs
- Capabilities to monitor up to 16 servers or additional devices through IP addresses
- Displays images from up to five IP cameras or other addressable devices for intrusion monitoring
- Standard protocols include BACNet, Telnet, and SNMP
- Multi-protocol and redundant alarm notification to inform key people of pending problems
- Internal, PPP enabled, internal modem option available
- RoHS compliant

Specifications

F 1 0 0 0 / F 3 4 0 0

Power	24VDC Model: 24VDC ($\pm 10\%$), 600mA max
Inputs Analog/Digital F1000 F3400	4 configurable as 4-20mA (12-bit A/D conversion), 4 as Dry Contact NO/NC or Thermistor 4 configurable as 4-20mA (12-bit A/D conversion), 4 as Dry Contact NO/NC or Thermistor and 24 Dry Contact NO/NC (<15mA)
Outputs Relay	2 Dry Contact, Form C, 1A @ 24VDC, 0.5A resistive @ 120VAC
Communications Ports Ethernet RS-232 RS-485 (selectable as RS-232) Optional Modem (RJ11 Telco)	10 BaseT, RJ45 connector; 500VAC RMS isolation DB9 female connector; 9600 baud; 3000VAC RMS optically isolated; 15kV ESD protection Two-wire half duplex; terminal block (selecting RS-232 switches to DB9 male connector); 9600 baud; 3000VAC RMS optically isolated V.34bis/33.6 kbps; DTMF capable; PPP-Enabled; FCC Part 68 approved; 1500VAC RMS isolation barrier; 2100V peak surge protection
Protocols TCP/IP; UDP/IP; ICMP/IP; FTP; NTP; Telenet; HTTP/HTML SNMP SMTP (email) Modbus Modbus/IP BACNet/IP Terminal Emulation TAP (Pager)	IPv4.0; up to 5 URI links to other IP addressable cameras/devices; web pages comply with Rehabilitation Act of 1973, sections 504 and 508, US Dept of Education (website accessibility for computer users with disabilities) V1; MIB-2 compliant; NMS Manageable with Get, Set, and Traps; V2c- Traps or Informs Supports Client Authentication (plain and login); compatible with ESMTP Servers RTU transmission protocol; function codes: Slave - 03; master - 01,02,03,04 Modbus Slave; TCP/IP transmission protocol Conformance Level 1 VT100 compatible Telocator Alphanumeric Protocol Ver1.8
Alarm Notification Pager (Modem) Email (Ethernet, Modem PPP) SNMP Traps (Ethernet) Escalation	4 text, numeric and/or alphanumeric pager numbers; each Digital and Analog Alarm (HighLimit2 and LowLimit2) can notify any 4 of the 4 pagers 4 email recipients; email sent on Alarm and Return To Normal; each Alarm can notify any or all of the 4 email recipients 8 Community Strings Additional notification to 1 of the 4 pager numbers when initial page results in Failure To Acknowledge status
Internal Hardware Real Time Clock Memory	Battery backed; ± 1.53 min/month accuracy 512K RAM; 128K NVRAM; 64K ROM; 2M Flash
Logging Capabilities Alarm Log Event Log Web User Access Log Digital Status Log Trending of Analog Inputs Minute Hour Day	Last 100 Alarms Last 100 Events (e.g., Acknowledgement By Code, System Boot, Page Successful, etc.) Last 100 HTML Accesses (User, Date, and Time) Last 100 Digital Status entries 244 entries per time frame, per channel Every minute, high/low/avg for the last 65 minutes Every hour, high/low/avg for the last 25 hours Every day, high/low/avg for the last 7 days
Login Security Web Browser Access (Ethernet, Modem PPP) Terminal Emulation Access (Modem, RS232)	1 Administrator plus 7 Users individually selectable for Read Only, Read/Write or Administrator 1 Administrator (password for both Modem and RS232) plus 1 Read Only (password for Modem only, not RS232)
Front Panel Interface Switches LED Indicators	1 Power (on/off) Power: 1 green (on/off); Status: 1 red (flashing = boot-up, on = alarm, off = normal); Network Link: 1 green; Network Activity: 1 green; Modem: 4 green (transmit, receive, off hook and carrier detect)
Operating Environment Temperature Humidity Altitude	32°F to 158°F (0°C to 70°C) 5% to 95% RH, non-condensing 15,000ft (4,572m) max.
Storage Environment	-40°F to 185°F (-40°C to 85°C)
Dimensions	16.8"W x 1.8"H x 7.9"D (427mmW x 46mmH x 201mmD)
Weight	6 lbs. (2.72kg)
Mounting	Vertical wall mount or Vertical flush mount (kit optional)
Certifications	CE; ETL listed: conforms to UL STD 61010A-1, EN STD 61010; CAN/CSA C22.2 STD NO. 1010.1; RoHS compliant



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