

FMS Quick Start Guide



FMS 2U



FMS 1U

Thank you for purchasing the Falcon Facilities Monitoring System (FMS). This guide describes how to connect the FMS to the network, configure inputs and system settings, and set up email notification. The *FMS User Guide*, located on our website, contains additional installation details.

If you need further assistance, contact RLE Technologies on our website at <http://www.rletech.com/> (go to the **Support Link**) or by calling **970.484.6510, Option 2**.



1 Preparing for Installation

When connecting the FMS to the network, have the following information available. If necessary, ask your IT administrator to provide this information so you can assign it to the FMS.

Basic Communications

IP address _____

Subnet mask _____

Default gateway _____

Email Notification

Primary DNS _____

Secondary DNS _____

Mail SMTP address (IP address or host name) _____

Mail sender address _____

Mail recipient addresses (up to 8) _____

ESMTP (for e-mail authentication)

ESMTP user name _____

ESMTP password _____

2 Accessing the Configuration Menu

You will select items from the Configuration Menu for all configuration tasks described in this guide.

- 1 Plug the crossover cable (included with the FMS) into the computer that will be used to configure the FMS.

Note: This cable is not intended to be connected to a network hub.

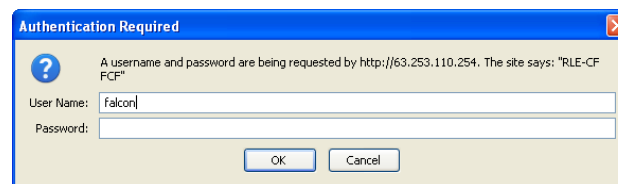
- 2 Connect the other end of the crossover cable to the Ethernet port on the back of the FMS.

Note: Alternatively, you could use the FMS's EIA-232 interface to access the FMS. Refer to the *FMS User Guide* (available at <http://www.rletech.com>) for instructions.

- 3 Write down the computer's current IP address, subnet mask, and default gateway. Change these items temporarily so that the computer can communicate with the FMS.

FMS default IP address: 10.0.0.188
FMS default subnet mask: 255.255.255.0

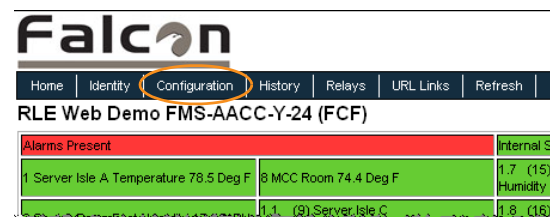
- 4 Access the FMS through a Web browser by typing the FMS's default IP address (10.0.0.188) into the location bar and pressing Enter.



Enter the following:

Default User Name: falcon (case sensitive)
Default Password: (No default password. Leave this field blank.)

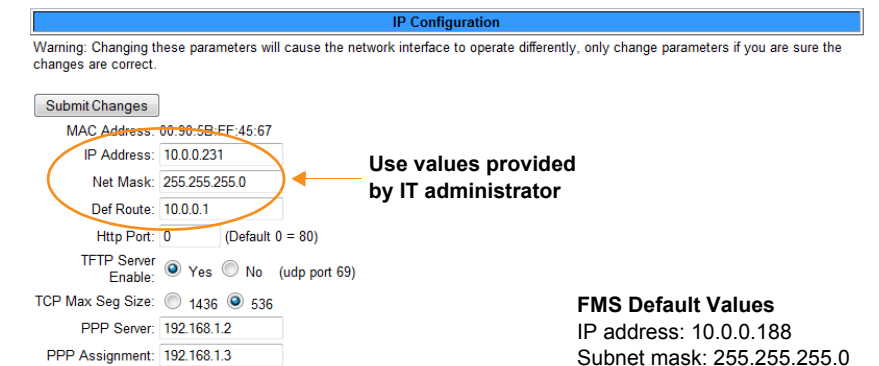
- 5 From the top bar, select the Configuration Menu link.



* You will use these items on the Configuration Menu to complete the tasks described in this quick start guide.

3 Configuring Network Communication

IMPORTANT Consult your IT administrator before performing these steps.



- 1 Enter the values for IP Address, Net Mask (subnet mask), and Def Route (default gateway) provided by your IT administrator.

Once you enter the values and click the Submit Changes button, the FMS saves the changes and reboots. The system status LED on front of the FMS stops flashing.

- 2 Reset the computer to its original IP address and subnet mask.

Note: This step might require assistance from your IT administrator.

The computer and the FMS are now both configured to communicate on the network.

- 3 Connect the computer and the FMS to the network.
- 4 From the computer's Web browser, go to the new IP address of the FMS.
- 5 When prompted, enter the user name and password to verify network access to the FMS (as you did in **step 4** in the previous section).

If the login window for the FMS does not display:

- a Verify that the cables are firmly attached.
- b Verify that you entered the correct IP address for the FMS.
- c Check for activity on the Link and Active LEDs on the front of the FMS as follows:
 - ◆ If the Link LED is off, the FMS is not connected to the network. Check the cable connections.
 - ◆ If the Active LED is on solid, too much data is being sent to the FMS for it to process. Consult your IT administrator.

Configuration Menu

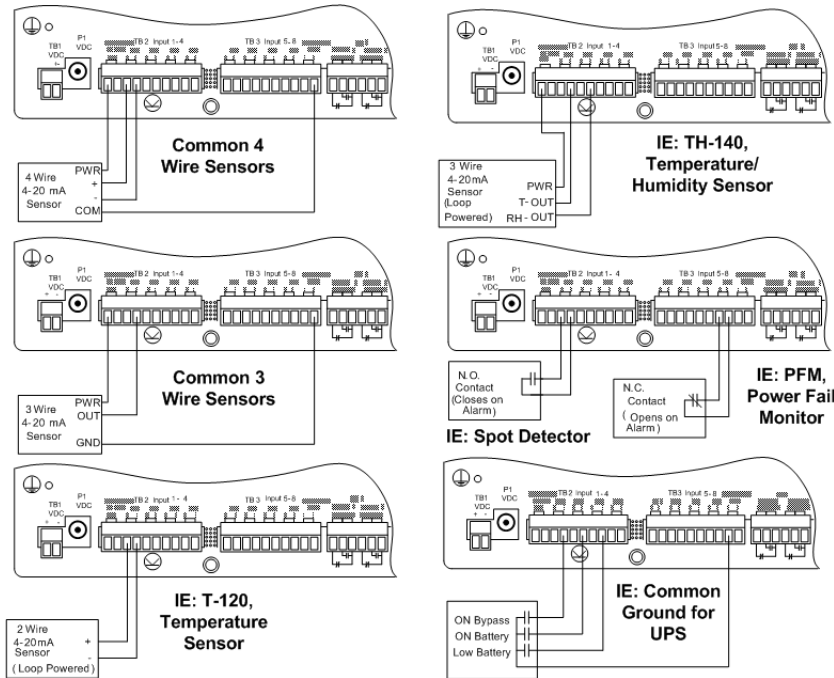
- Inputs and Relays*
- System*
- Alarm Management
- Trends
- Clock
- Schedules
- Battery
- URL Links (1-5)
- URL Links (6-10)
- Links
- Nest/Egg
- Modem/Phone Numbers/Pagers
- Keypad/DTMF Access Users
- Internet Protocol*
- User Administration (Web Access)
- Network Statistics
- Icmp Ping
- Email/DNS*
- Network Time Protocol
- SNMP/Syslog
- Bacnet
- Com Port1/Modbus/Telnet
- Modbus Slave Units
- Flash Program
- Product Registration

4 Configuring the Inputs

The eight non-isolated universal inputs are connected to TB2 and TB3. Universal input channels can be individually configured through the FMS to monitor a 4-20mA signal, a normally open (NO) dry contact relay, or a normally closed (NC) dry contact relay.

Making the Physical Connections

The following figure shows examples of input wiring.



Once you have wired the inputs, make note of the following:

- ◆ Sensor type (analog or digital) connected to each channel
- ◆ For analog sensors, the high/low values.
- ◆ For digital sensors, the non-alarm state—normally open (NO) or normally closed (NC).

Configuring the Channels

Configure the input channels using the Inputs & Relays page of the FMS Web interface. Click on the underlined label for the input you want to configure..

Inputs							
S.Ch (#)	Label	S.Ch (#)	Label	S.Ch (#)	Label	S.Ch (#)	Label
(1)	<u>Input #1</u>	(2)	<u>ANALOG #2</u>	(3)	<u>ANALOG #3</u>	(4)	<u>ANALOG #4</u>
(5)	<u>ANALOG #5</u>	(6)	<u>ANALOG #6</u>	(7)	<u>ANALOG #7</u>	(8)	<u>ANALOG #8</u>
1.1 (9)	<u>ANALOG #1.1</u>	1.2 (10)	<u>ANALOG #1.2</u>	1.3 (11)	<u>ANALOG #1.3</u>	1.4 (12)	<u>ANALOG #1.4</u>
1.5 (13)	<u>ANALOG #1.5</u>	1.6 (14)	<u>ANALOG #1.6</u>	1.7 (15)	<u>ANALOG #1.7</u>	1.8 (16)	<u>ANALOG #1.8</u>
1.9 (17)	<u>ANALOG #1.9</u>	1.10 (18)	<u>ANALOG #1.10</u>	1.11 (19)	<u>ANALOG #1.11</u>	1.12 (20)	<u>ANALOG #1.12</u>
2.1 (33)	<u>Input #2.1</u>	2.2 (34)	<u>Input #2.2</u>	2.3 (35)	<u>Input #2.3</u>	2.4 (36)	<u>Input #2.4</u>
2.5 (37)	<u>Input #2.5</u>	2.6 (38)	<u>Input #2.6</u>	2.7 (39)	<u>Input #2.7</u>	2.8 (40)	<u>Input #2.8</u>
2.9 (41)	<u>Input #2.9</u>	2.10 (42)	<u>Input #2.10</u>	2.11 (43)	<u>Input #2.11</u>	2.12 (44)	<u>Input #2.12</u>
2.13 (45)	<u>Input #2.13</u>	2.14 (46)	<u>Input #2.14</u>	2.15 (47)	<u>Input #2.15</u>	2.16 (48)	<u>Input #2.16</u>
2.17 (49)	<u>Input #2.17</u>	2.18 (50)	<u>Input #2.18</u>	2.19 (51)	<u>Input #2.19</u>	2.20 (52)	<u>Input #2.20</u>
2.21 (53)	<u>Input #2.21</u>	2.22 (54)	<u>Input #2.22</u>	2.23 (55)	<u>Input #2.23</u>	2.24 (56)	<u>Input #2.24</u>
5.1 (105)	<u>Internal Temper</u>	5.2 (106)	<u>Internal Humidi</u>				

Relays							
S.Ch (#)	Label	S.Ch (#)	Label	S.Ch (#)	Label	S.Ch (#)	Label
(1)	<u>RELAY #1</u>	(2)	<u>RELAY #2</u>	1.1 (3)	<u>RELAY #1.1</u>	1.2 (4)	<u>RELAY #1.2</u>
1.3 (5)	<u>RELAY #1.3</u>	1.4 (6)	<u>RELAY #1.4</u>	1.5 (7)	<u>RELAY #1.5</u>	1.6 (8)	<u>RELAY #1.6</u>
1.7 (9)	<u>RELAY #1.7</u>	1.8 (10)	<u>RELAY #1.8</u>				

Configuring Inputs

- A Input can be Analog 4-20 mA or Digital NO or NC
- B Applies only to analog inputs. Gain and offset determine the correct values for the FMS to calculate.
- C Applies only to analog inputs. Hysteresis designates the amount an input must change before returning to normal.
- D Applies only to analog inputs. Displays units on main menu, such as Deg F, Deg C, %RH, Amps, Volts, psi, etc.
- E FMS current raw reading and calculated value.
- F Applies only to Analog inputs. High and Low alarm thresholds of range being monitored.
- G This label is displayed on the FMS menu and the configuration menu.
- H Relay configuration link.

5 Configuring System Information

- A An alphanumeric name that you would recognize. This name appears on the Main Menu and is included as part of email and pager notifications.
- B An integer greater than 5.
- C Consult your PDA manual for the correct width.
- D The number of points to be monitored. Maximum 104.

6 Configuring Email Notification

The FMS sends one email message per alarm instance to a maximum of eight email recipients.

- A Refer to information from IT administrator.
- B Text that is easily recognized as notification from the FMS.
- C Up to eight email recipients.
- D For ESMTMP email authentication. Refer to information from IT administrator.

7 Completing the Installation

Once you have completed the tasks in this quick start guide, the FMS can communicate over the network and monitor the inputs you configured.

Consult the *FMS User Guide* at <http://www.rletech.com> for information about completing these additional tasks:

- ◆ System clock settings
- ◆ Network time protocol settings
- ◆ SNMP/Syslog settings
- ◆ Modbus/Telnet settings
- ◆ BACnet settings
- ◆ User administration
- ◆ URL links to IP-addressable devices
- ◆ Nest/Egg configuration (for additional FMS appliances that will be monitored by a central FMS appliance)
- ◆ Trends
- ◆ Alarm management
- ◆ Product registration

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