RLE

CT55/CT55-SPC Falcon Integration

104 Racquette Drive Fort Collins, CO 80524 (970) 484-6510 Phone (970) 484-6650 Fax www.rletech.com

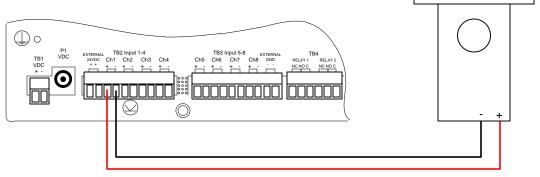


Figure 1.1: FMS Wiring with CT55

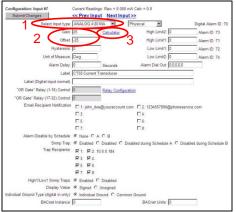


Figure 1.3: FMS CT55 Input Configuration Interface

FMS Configuration

- Set Input Type to an Analog 4-20 mA Input.
- 2. For a 0-100 Amp setting, use a gain of 25 and an offset of -25.
- For other settings, use the integrated gain/offset calculator.

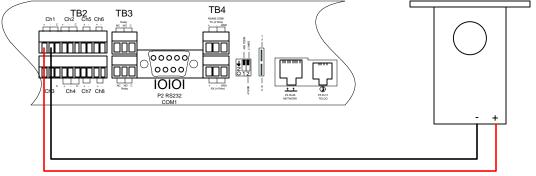


Figure 1.2: F-Series Wiring with CT55

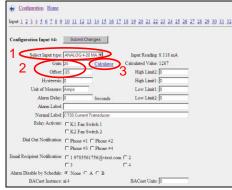
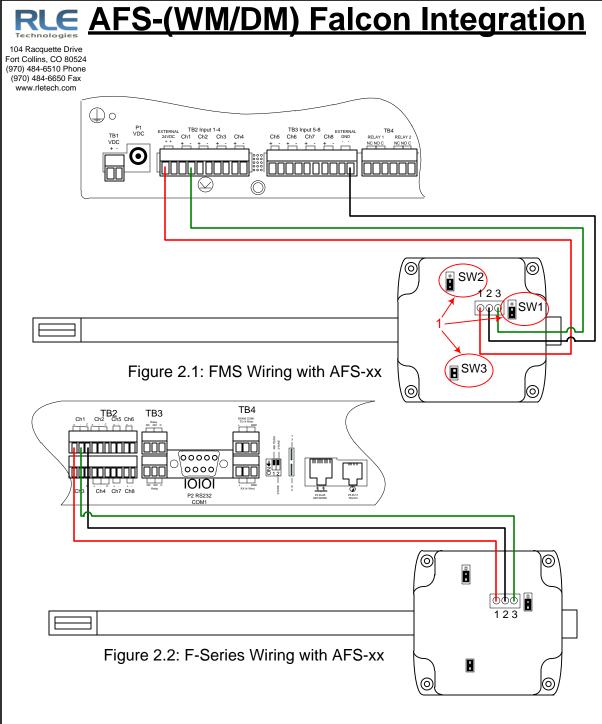


Figure 1.4: F-Series CT55 Input Configuration

F-Series Configuration

- Set Input Type to an Analog 4-20 mA Input.
- 2. For a 0-100 Amps setting, use a gain of 25 and an offset of 25.
- 3. For other settings, use the integrated gain/offset calculator.

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- 1. Set Jumper Switches on AFS-XX to appropriate settings.
- Output Selection SW1: 4-20mA Output
- Working Range SW2: 0-2000 Ft/Min Range H
 - 0-3000 Ft/Min Range 0-4000 Ft/Min Range
- Response Time SW3: Fast Slow
- 2. Set FMS Input Channel to an Analog 4-20 mA.
- 3. For a 0-2000 Ft/Min Range, use a gain of 500 and an offset of -500.
- 4. For other settings, use the integrated gain/offset calculator.

FMS Configuration



Figure 2.3: FMS AFS-xx Input Configuration Interface

F-Series Configuration

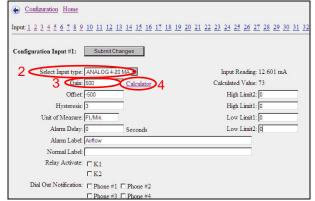


Figure 2.4: F-Series AFS-xx Input Configuration Interface



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AFS-D Falcon Integration

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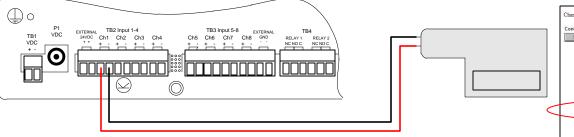


Figure 3.1: FMS Wiring with AFS-D

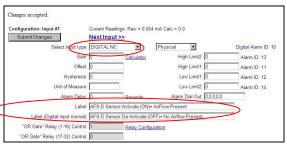


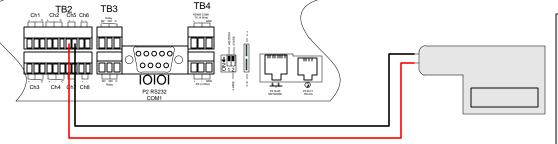
Figure 3.4: FMS AFS-D Input Configuration Interface

FMS Configuration

F-Series Configuration

F110 Configuration

Set Input Type to a NC Digital Contact for each AFS-D wired into the Falcon. Assign an on/ off label for each sensor connected.



Manual

Figure 3.2: F-Series Wiring with AFS-D

2 | 3 | 4 | 5 | 6 | 7 |

Figure 3.3: F110 Wiring with AFS-D

Configuration Home Set Input Type to a NC uput: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 Digital Contact for each Configuration Input #5: Submit Changes AFS-D wired into the Select Input type: DIGITAL NO F3400/1000. Assign your on/off label for each sensor connected. Low Limit1: Relay Activate: FK1 Fan Switch 1 ☐ K2 Fan Switch 2

Figure 3.5: F-Series AFS-D Input Configuration Interface

RUE Technologies Save Settings

Figure 3.6: F110 AFS-D Input Configuration Interface

Set Input Type to Alarm On Open for each AFS-D wired into the F110 and assign a label.

Falcon Product Integration Guide

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Technologies 104 Racquette Drive Fort Collins, CO 80524

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MD3 Falcon Integration

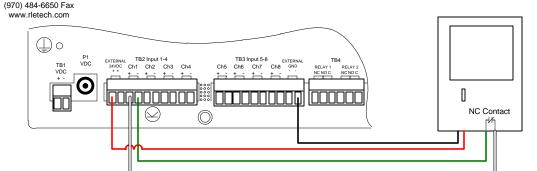


Figure 4.1: FMS Wiring with MD3

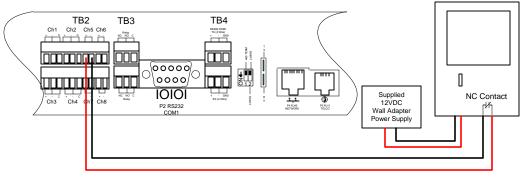


Figure 4.2: F-Series Wiring with MD3

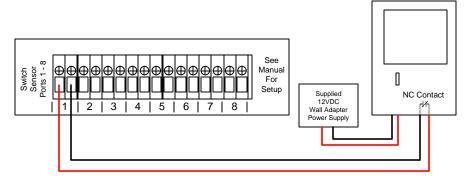


Figure 4.3: F110 Wiring with MD3

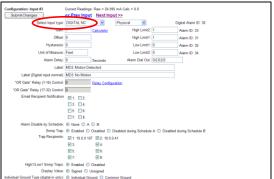


Figure 4.4: FMS MD3 Input Configuration Interface

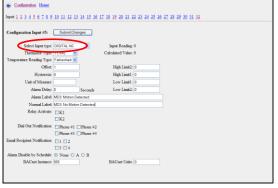


Figure 4.5: F-Series MD3 Input Configuration Interface

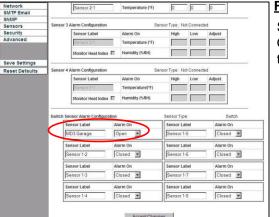
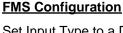


Figure 4.6: F110 MD3 Input Configuration Interface



Set Input Type to a Digital NC Input Type for each MD3 wired into the Falcon.

F-Series Configuration

Set Input Type to a Digital NC Input Type for each MD3 wired into the F3400/1000.

F110 Configuration

Set Input Type to Alarm on Open for each MD3 wired into the F110.



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104 Racquette Drive

MDS Falcon Integration



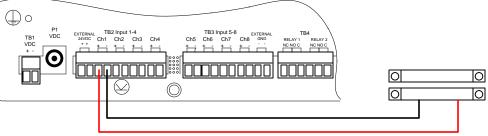
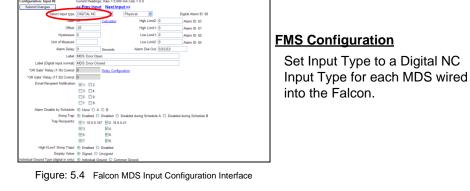


Figure 5.1: FMS Wiring with MDS



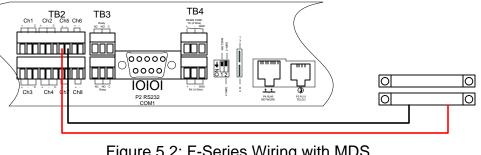
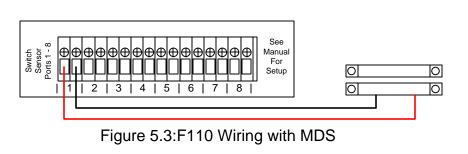


Figure 5.2: F-Series Wiring with MDS



Figure 5.5: F-Series MDS Input Configuration Interface



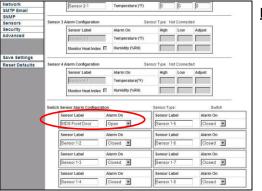


Figure 5.6: F110 MDS Input Configuration Interface

F110 Configuration

F-Series Configuration

into the F3400/1000.

Set Input Type to a Digital NC

Input Type for each MDS wired

Set Input Type to Alarm on Open for each MDS wired into the F110.





SMK Falcon Integration

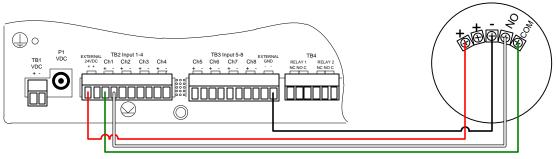


Figure 6.1: FMS Wiring with SMK

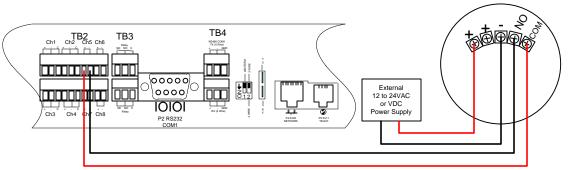


Figure 6.2: F-Series Wiring with SMK

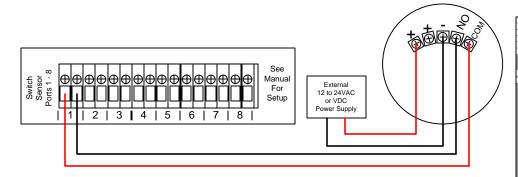


Figure 6.3: F110 Wiring with SMK



Figure 6.4: FMS SMK Input Configuration Interface



Figure 6.5: F-Series SMK Input Configuration Interface

| Network | Service | Serv

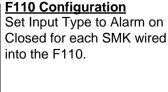
Figure 6.6:F110 SMK Input Configuration Interface

NO Digital Contact for each SMK wired into the Falcon.

FMS Configuration Set Input Type to a

F-Series Configuration

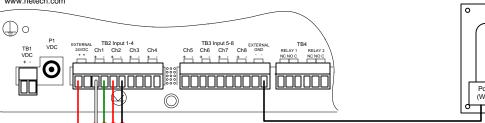
Set Input Type to a NO Digital Contact for each SMK wired into the F3400/1000. Only channels 5 thru 32 can be used with the F3400 and Channels 5 thru 8 for the F1000.

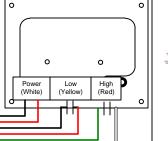




HD150 & HD150-2 Falcon Integration







FMS Configuration

Alarm ID: 63

Alarm ID: 61 Alarm ID: 62

Alarm ID: 64

High Limit1: 0

Alarm Dial Out: 0,0,0,0,0

Set Input Type to a Digital NO Input type for each HD150/HD150-2 Relay Output wired into the Falcon.

Figure 7.1: FMS Wiring with HD150/HD150-2

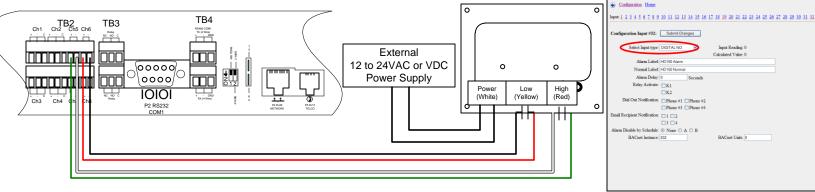
Figure 7.4: F-Series HD150/150-2 Input Configuration Interface

p Recipients: 1: 10.0.0.107 2: 10.0.0.41

(digital in only):
 Individual Ground ()

Snmp Trap:

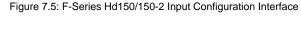
Enabled Disabled Disabled during Schedule A Disabled during Schedule



F-Series Configuration

Set Input Type to a Digital NO Input type for each HD150/HD150-2 Relay Output wired into the F3400/1000.

Figure 7.2: F-Series Wiring with HD150/HD150-2



BACnet Units: 0

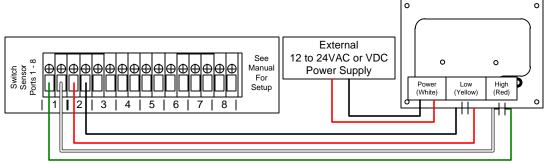


Figure 7.3: F110 Wiring with HD150/HD150-2

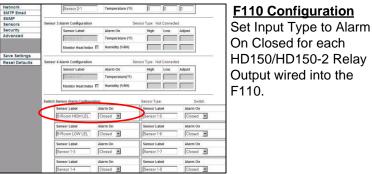


Figure 7.6: F110 HD150/150-2 Input Configuration Interface

Falcon Product Integration Guide

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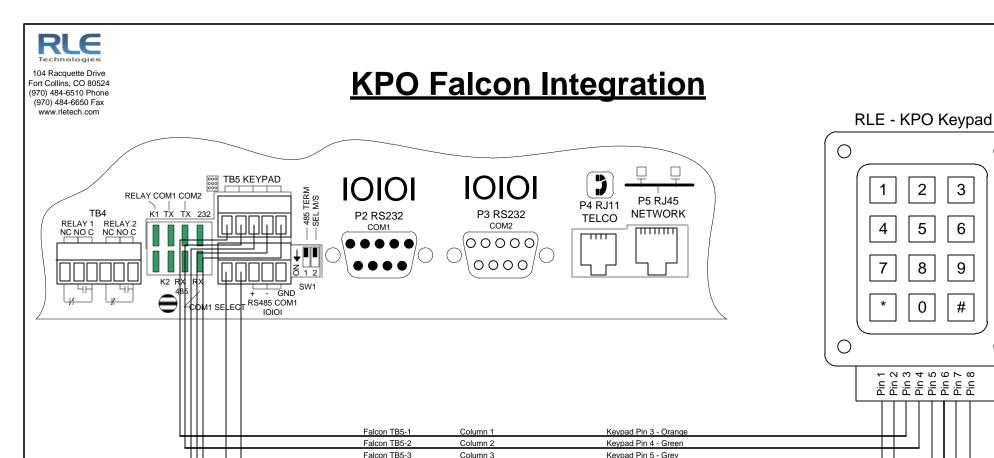


Figure 8.1: FMS Wiring with KPO

No Connection Keypad Pin 6 - Black

Keypad Pin 1 - Red

Keypad Pin 2 - White

Keypad Pin 7 - Blue

Keypad Pin 8 - Yellow

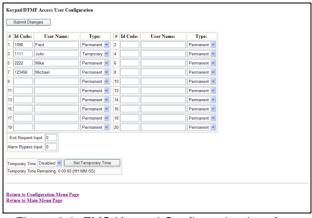


Figure 8.2: FMS Keypad Configuration Interface

FMS Configuration

Falcon TB5-4

Falcon TB5-5

Falcon TB5-6

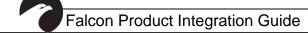
Falcon TB5-7

Enter in Keypad users and corresponding codes in the Falcon's Keypad/DTMF Access User Configuration menu.

Row 1

Row 2

Row 4

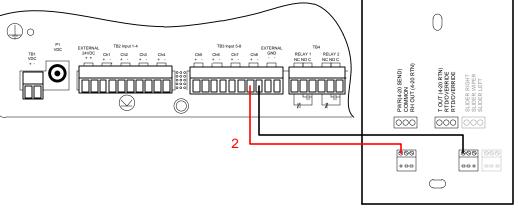


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FMS to T120D Falcon Integration

BACK PIECE



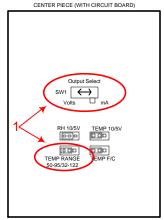
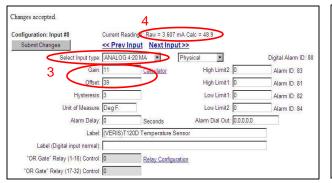


Figure 9.1: FMS Wiring with the T120D



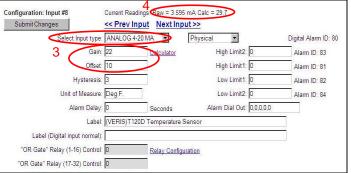


Figure 9.2: 50-95F Range Setup

Figure 9.3: 32-122F Range Setup

SETUF

- Set the switch position to mA. Set the temperature range to 50-95 or 32-122. The sensor is shipped from the factory with the switch in the volts position and the temperature range is set for 50-95F. The switch position must be set to the mA position.
- 2. Wire the sensor to the CH # being used.
- Configure the Falcon Input channel (temperature) for "Analog 4-20mA" and enter the Gain and offset values. For the 50-95F range use Gain 11.25, Offset 38.75. For 32-122F range use Gain 22, Offset 10.
- Verify the "Calc" value displays the correct room temperature.
 The temperature can also be viewed on the Falcon main page.

TROUBLESHOOTING

1. Calculate the T120D Output current for temperature.

Formula for calculating the correct RAW value

((Actual temp - Sensor Low) / (Sensor High - Sensor Low)) x 16 + 4

Example if Room Temp is 70F and your sensor has a range of 50-95

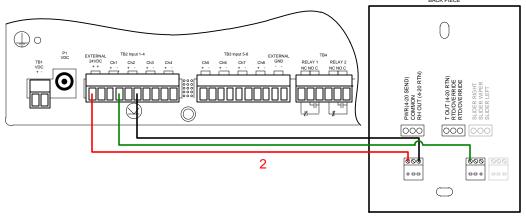
$$((70 - 50) / (95 - 50)) \times 16 + 4 = 11.11$$

- Measure the current flowing into the Falcon Ch- terminal with a current meter. Verify that it is close to the calculated current (+/-1%).
- If measured current does not match calculated current then check wiring and check T120D jumper and switch settings.
- Compare the measured current matches the current reading in the Falcon.
- Check the wiring if the Falcon current reading does not match the measured current reading.
- If the Falcon current reading matches the measured current and the Falcon Calculated value does not match the room temperature then the offset and gain values are wrong. Double check the Gain and Offset values.
- 7. If the temperature displayed in the Falcon is 1 or 2 degrees above or below the room temperature then adjust the offset by 1 or 2. Do not adjust the gain. Only tweak the offset once the previous troubleshooting steps have been performed.
- If the Falcon still does not display the correct temperature contact RLE Technologies technical support at 970.484.6510.

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FMS to TH140/TH140D Falcon Integration



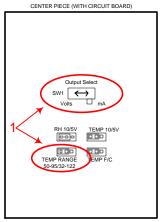
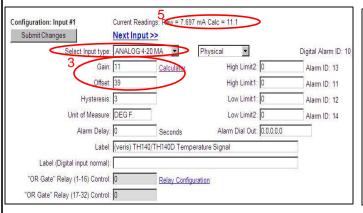


Figure 10.1: FMS Wiring with the TH140/TH140D





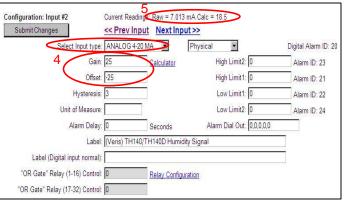


Figure 10.3: Humidity Setup

SETUP

- Set the switch position to mA. Set the temperature range to 50-95 or 32-122. The Sensor is shipped from the factory with the switch in the volts position and the temperature range is set for 50-95F. The switch position must be set to the mA position.
- 2. Wire the sensor as shown.
- Configure the Falcon Input channel (temperature) for "Analog 4-20mA" and enter the Gain and Offset values. For the 50-95F range use Gain 11.25, Offset 38.75. For 32-122F range use Gain 22. Offset 10.
- 4. Configure the Falcon Input Channel (humidity) for "Analog 4-20mA" and enter the Gain of 25 and Offset of -25.
- Verify the "Calc" Value displays the correct room temperature.
 The temperature can also be viewed on the Falcon main page.

TROUBLESHOOTING

1. Calculate the TH140 Output current for temperature.

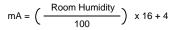
Formula for calculating the correct RAW value

((Actual temp - Sensor Low) / (Sensor High - Sensor Low)) x 16 + 4

Example if Room Temp is 70F and your sensor has a range of 50-95

$$((70 - 50) / (95 - 50)) \times 16 + 4 = 11.11$$

- Measure the current flowing into the Falcon Ch- terminal with a current meter. Verify that it is close to the calculated current (+/-1%)
- If measured current current does not match calculated current then check wiring and check TH140/TH140D jumper and switch settings.
- Compare the measured current matches the current reading in the Falcon.
- 5. Check the wiring if the Falcon current reading does not match the measured current reading.
- If the Falcon current reading matches the measured current and the Falcon calculated value does not match the room temperature then the offset and gain values are wrong. Double check the Gain and Offset values.
- 7. If the temperature displayed in the Falcon is 1 or 2 degrees above or below the room temperature then adjust the offset by 1 or 2. Do not adjust the gain. Only tweak the offset once the previous troubleshooting steps have been performed.
- 8. If the Falcon still does not display the correct temperature contact RLE Technologies technical support at 970.484.6510.
- Use similar troubleshooting procedure except use the following formula to calculate the humidity mA output.

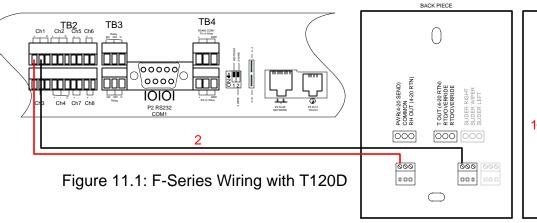


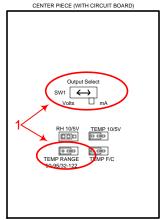


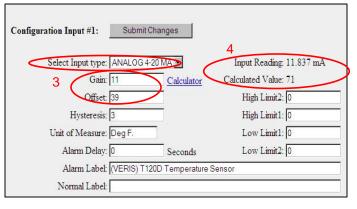
Falcon Product Integration Guide



F-Series to T120D Falcon Integration







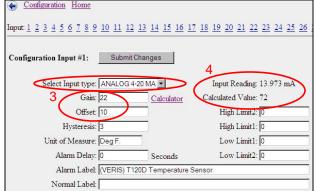


Figure 11.2: 50-95F Range Setup

Figure 11.3: 32-122F Range Setup

SETUP

- Set the Switch Position to mA. Set the temperature range to 50-95 or 32-122. The sensor is shipped from the factory with the switch in the volts position and the temperature range is set for 50-95F. The switch position must be set to the mA position.
- 2. Wire the sensor as shown.
- Configure the Falcon Input channel (temperature) for "Analog 4-20mA" and enter the gain and offset values. For the 50-95F range use Gain 11, Offset 39. For 32-122F range use Gain 22, Offset 10.
- Verify the "Calc" value displays the correct room temperature.
 The temperature can also be viewed on the Falcon main page.

TROUBLESHOOTING

5. Calculate the T120D Output current for temperature.

((Actual temp - Sensor Low) / (Sensor High - Sensor Low)) x 16 + 4

Example if Room Temp is 70F and your sensor has a range of 50-95

Example if Room Temp is 70F

mA @ 70F = 11.11mA

mA @ 69F = 10.75mA

- Measure the current flowing into the Falcon Ch- terminal with a current meter. Verify that it is close to the calculated current (+/-1%)
- If measured current current does not match calculated current then check wiring and check T120D jumper and switch settings.
- Compare the measured current matches the current reading in the Falcon.
- Check the wiring if the Falcon current reading does not match the measured current reading.
- 10. If the Falcon current reading matches the measured current and the Falcon calculated value does not match the room temperature then the offset and gain values are wrong. Double check the Gain and Offset values.
- 11. If the temperature displayed in the Falcon is 1 or 2 degrees above or below the room temperature then adjust the offset by 1 or 2. Do not adjust the gain. Only tweak the offset once the previous troubleshooting steps have been performed.
- If the Falcon still does not display the correct temperature contact RLE Technologies technical support at 970.484.6510.



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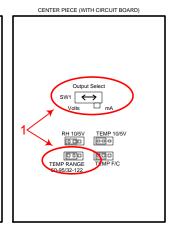


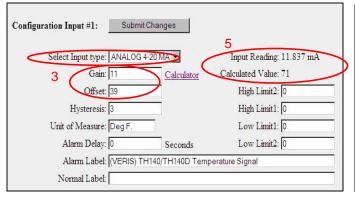
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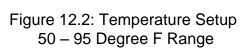
F-Series to TH140/TH140D Falcon Integration

BACK PIECE

Figure 12.1: F-Series Wiring with TH140/ TH140D







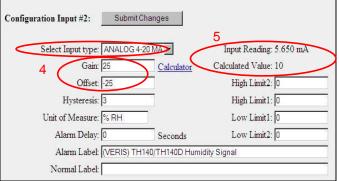


Figure 12.3: Humidity Setup

SETUP

- Set the Switch Position to mA. Set the temperature range to 50-95 or 32-122. The Sensor is shipped from the factory with the switch in the volts position and the temperature range is set for 50-95F. The switch position must be set to the mA position.
- 2. Wire the sensor as shown.
- Configure the Falcon Input channel (temperature) for "Analog 4-20mA" and enter the Gain and Offset values. For the 50-95F range use Gain 11, Offset 39. For 32-122F range use Gain 22, Offset 10.
- 4. Configure the Falcon Input Channel (humidity) for "Analog 4-20mA" and enter the Gain of 25 and offset of -25.
- Verify the "Calc" value displays the correct room temperature/humidity.The temperature/humidity can also be viewed on the Falcon main page.

TROUBLESHOOTING

1. Calculate the TH140 Output current for temperature.

((Actual temp - Sensor Low) / (Sensor High - Sensor Low)) x 16 + 4 Example if Room Temp is 70F and your sensor has a range of 50-95

$$((70 - 50) / (95 - 50)) \times 16 + 4 = 11.11$$

- 2. Measure the current flowing into the Falcon Ch- terminal with a current meter. Verify that it is close to the calculated current (+/-1%)
- If measured current current does not match calculated current then check wiring and check TH140/TH140D jumper and switch settings.
- 4. Compare the measured current matches the current reading in the Falcon.
- Check the wiring if the Falcon current reading does not match the measured current reading.
- If the Falcon current reading matches the measured current and the Falcon calculated value does not match the room temperature then the offset and gain values are wrong. Double check the Gain and Offset values.
- 7. If the temperature displayed in the Falcon is 1 or 2 degrees above or below the room temperature then adjust the offset by 1 or 2. Do not adjust the gain. Only tweak the offset once the previous troubleshooting steps have been performed.
- 8. If the Falcon still does not display the correct temperature contact RLE Technologies technical support at 970.484.6510.
- Use similar troubleshooting procedure except use the following formula to calculate the humidity mA output.

$$mA = \left(\frac{Room\ Humidity}{100}\right) \times 16 + 4$$

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FMS BAPI Temperature/Humidity Falcon Integration

Figure 13.1: Falcon Wiring with the BAPI Temperature/Humidity sensor

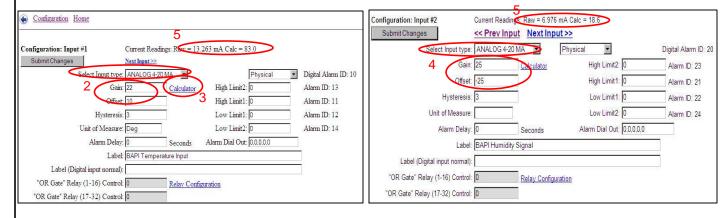


Figure 13.2: Temperature Setup 32 - 120 Degree F Range

Figure 13.3: Humidity Setup

SETUP

- 1. Wire the sensor as shown.
- Configure the Falcon Input channel (temperature) for "Analog 4-20mA" and enter the gain and offset values. For the 32-120F range use Gain 22, Offset -10.
- 3. For other temperature ranges, use the Calculator function on the webpage
- Configure the Falcon Input Channel (humidity) for "Analog 4-20mA" and enter the Gain of 25 and Offset of -25.
- Verify the "Calc" Value displays the correct room temperature.
 The temperature can also be viewed on the Falcon main page.

TROUBLESHOOTING

1. Calculate the BAPI Output current for temperature.

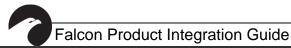
((Actual temp - Sensor Low) / (Sensor High - Sensor Low)) x 16 + 4

Example if Room Temp is 70F and your sensor has a range of 32-120

$$((70 - 32) / (120 - 32)) \times 16 + 4 = 10.90$$

- Measure the current flowing into the Falcon Ch- terminal with a current meter. Verify that it is close to the calculated current (+/-1%)
- If measured current current does not match calculated current then check wiring and check the BAPI switch settings.
- Compare the measured current matches the current reading in the Falcon
- Check the wiring if the Falcon current reading does not match the measured current reading.
- If the Falcon current reading matches the measured current and the Falcon calculated value does not match the room temperature then the offset and gain values are wrong. Double check the Gain and Offset values.
- 7. If the temperature displayed in the Falcon is 1 or 2 degrees above or below the room temperature then adjust the offset by 1 or 2. Do not adjust the gain. Only tweak the offset once the previous troubleshooting steps have been performed.
- If the Falcon still does not display the correct temperature contact RLE Technologies technical support at 970.484.6510.
- Use similar troubleshooting procedure except use the following formula to calculate the humidity mA output.

$$mA = \left(\frac{Room Humidity}{100}\right) \times 16 + 4$$



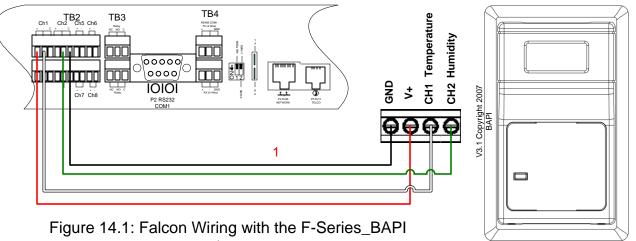
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F-Series BAPI Temperature/Humidity Falcon Integration



Temperature/Humidity sensor

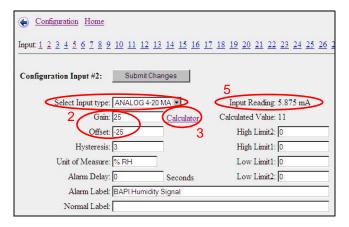


Figure 14.2: Temperature Setup 32 - 120 Degree F Range

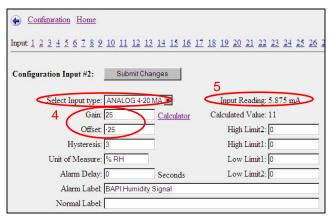


Figure 14.3: Humidity Setup

SETUP

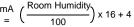
- 1. Wire the sensor as shown.
- 2. Configure the Falcon Input channel (temperature) for "Analog 4-20mA" and enter the gain and offset values. For the 32-120F range use Gain 22, Offset 10.
- 3. For other temperature ranges, use the Calculator function on the webpage.
- 4. Configure the Falcon Input Channel (humidity) for "Analog 4-20mA" and enter the Gain of 25 and Offset of -25.
- 5. Verify the "Calc" value displays the correct room temperature. The temperature can also be viewed on the Falcon main page.

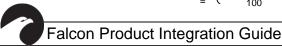
TROUBLESHOOTING

1. Calculate the BAPI Output current for temperature.

((Actual temp - Sensor Low) / (Sensor High - Sensor Low)) x 16 + 4 Example if Room Temp is 70F and your sensor has a range of 32-110

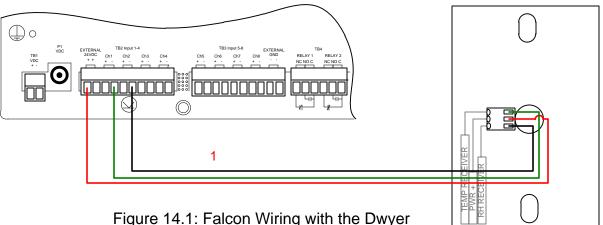
- $((70 32) / (120 32)) \times 16 + 4 = 10.90$
- 2. Measure the current flowing into the Falcon Ch- terminal with a current meter. Verify that it is close to the calculated current
- 3. If measured current current does not match calculated current then check wiring and check the BAPI switch settings.
- 4. Compare the measured current matches the current reading in the Falcon.
- 5. Check the wiring if the Falcon current reading does not match the measured current reading.
- 6. If the Falcon current reading matches the measured current and the Falcon Calculated value does not match the room temperature then the offset and gain values are wrong. Double check the Gain and Offset values.
- 7. If the temperature displayed in the Falcon is 1 or 2 degrees above or below the room temperature then adjust the offset by 1 or 2. Do not adjust the gain. Only tweak the offset once the previous troubleshooting steps have been performed.
- 8. If the Falcon still does not display the correct temperature contact RLE Technologies technical support at 970.484.6510.
- 9. Use similar troubleshooting procedure except use the following formula to calculate the humidity mA output.



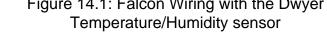


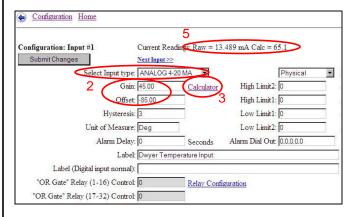


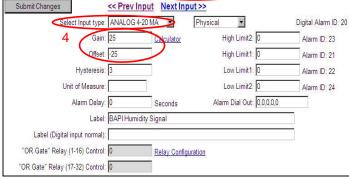
FMS Dwyer Temperature/Humidity Falcon Integration



Configuration: Input #2







Current Readings: Raw = 6.976 mA Calc = 18.6

Figure 14.2: Temperature Setup -40 - 140 Degree F Range

Figure 14.3: Humidity Setup

SETUP

- 1. Wire the sensor as shown.
- Configure the Falcon Input channel (temperature) for "Analog 4-20mA" and enter the gain and offset values. For the -40 -140F range use Gain 45, Offset -85.
- 3. For other temperature ranges, use the Calculator function on the webpage
- 4. Configure the Falcon Input Channel (humidity) for "Analog 4-20mA" and enter the Gain of 25 and Offset of -25.
- Verify the "Calc" Value displays the correct room temperature.
 The temperature can also be viewed on the Falcon main page.

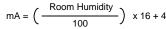
TROUBLESHOOTING

1. Calculate the Dwyer Output current for temperature.

((Actual temp - Sensor Low) / (Sensor High - Sensor Low)) x 16 + 4 Example if Room Temp is 70F and your sensor has a range of -40 - 140

$$((70 - -40) / (140 - -40)) \times 16 + 4 = 13.77$$

- Measure the current flowing into the Falcon Ch- terminal with a current meter. Verify that it is close to the calculated current (+/-1%)
- 3. If measured current current does not match calculated current then check wiring.
- 4. Compare the measured current matches the current reading in the Falcon.
- Check the wiring if the Falcon current reading does not match the measured current reading.
- If the Falcon current reading matches the measured current and the Falcon calculated value does not match the room temperature then the offset and gain values are wrong. Double check the Gain and Offset values.
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- If the Falcon still does not display the correct temperature contact RLE Technologies technical support at 970.484.6510.
- Use similar troubleshooting procedure except use the following formula to calculate the humidity mA output.

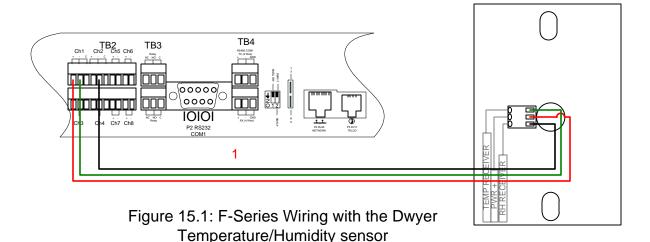




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F-Series Dwyer Temperature/Humidity Falcon Integration



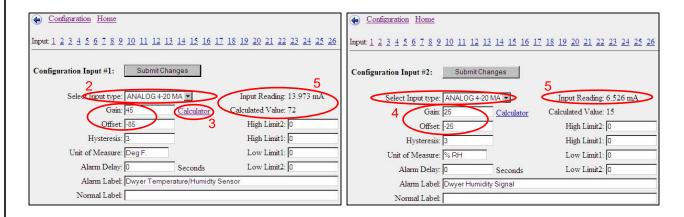


Figure 15.2: Temperature Setup -40 - 140 Degree F Range

Figure 15.3: Humidity Setup

SETUP

- 1. Wire the sensor as shown.
- Configure the Falcon Input channel (temperature) for "Analog 4-20mA" and enter the gain and offset values. For the -40 -140F range use Gain 45, Offset -85.
- 3. For other temperature ranges, use the Calculator function on the webpage
- 4. Configure the Falcon Input Channel (humidity) for "Analog 4-20mA" and enter the Gain of 25 and Offset of -25.
- Verify the "Calc" Value displays the correct room temperature.The temperature can also be viewed on the Falcon main page.

TROUBLESHOOTING

1. Calculate the Dwyer Output current for temperature.

((Actual temp - Sensor Low) / (Sensor High - Sensor Low)) x 16 + 4

Example if Room Temp is 70F and your sensor has a range of -40 - 140

$$((70 - -40) / (140 - -40)) \times 16 + 4 = 13.77$$

- Measure the current flowing into the Falcon Ch- terminal with a current meter. Verify that it is close to the calculated current (+/-1%)
- 3. If measured current current does not match calculated current then check wiring.
- Compare the measured current matches the current reading in the Falcon.
- Check the wiring if the Falcon current reading does not match the measured current reading.
- If the Falcon current reading matches the measured current and the Falcon calculated value does not match the room temperature then the offset and gain values are wrong. Double check the Gain and Offset values.
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- 8. If the Falcon still does not display the correct temperature contact RLE Technologies technical support at 970.484.6510.
- Use similar troubleshooting procedure except use the following formula to calculate the humidity mA output.

$$mA = \left(\frac{Room Humidity}{100}\right) \times 16 + 4$$