

Semiconductor Refrigerant Transducer (SRT) Installation (P/N 809-3000)

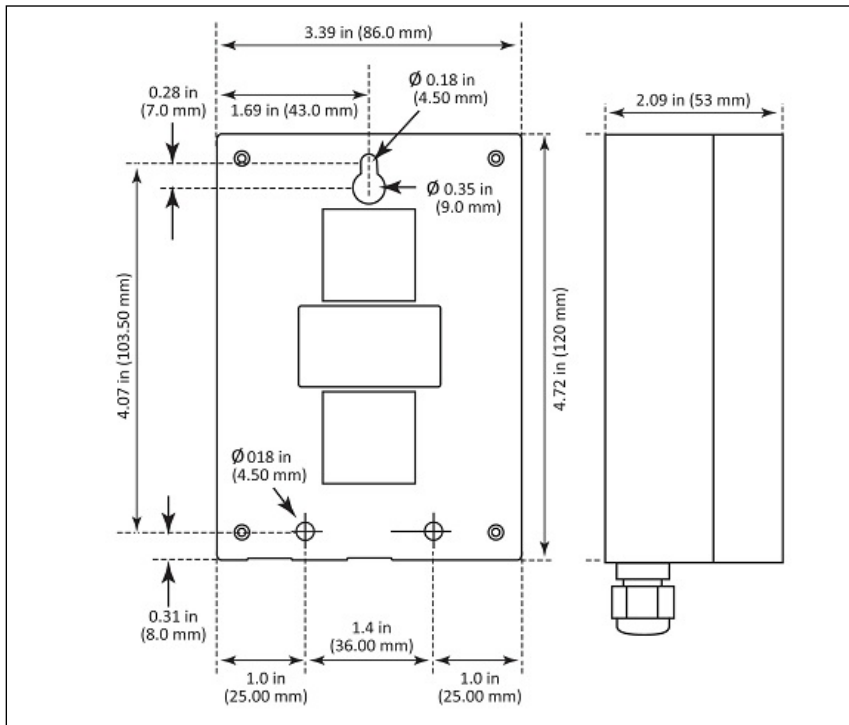
Installation Instructions

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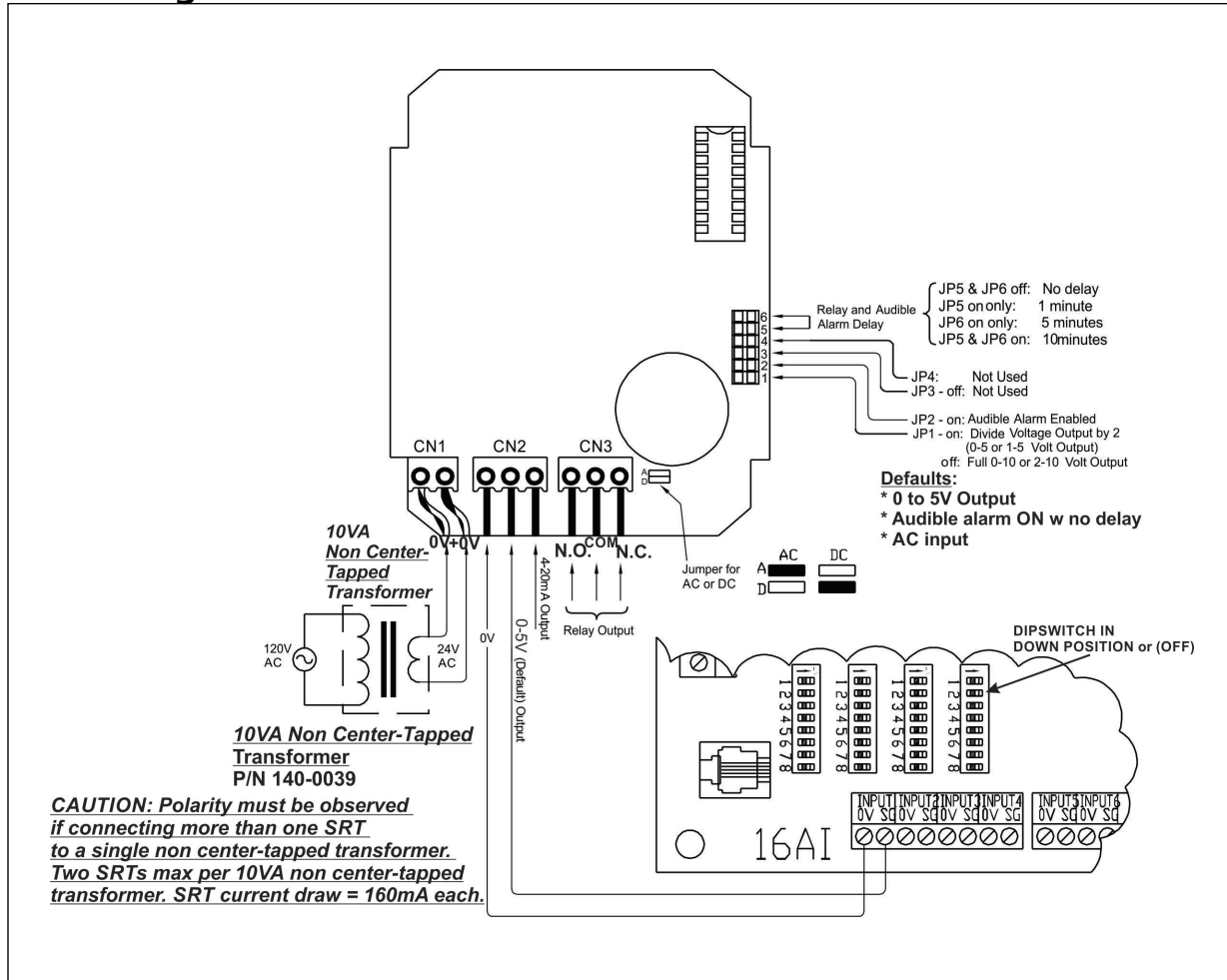
1. Mount the SRT to a flat surface using the three mounting holes provided in the back of the housing.
2. With the lid removed, wire the SRT output terminals to the control system. The voltage output terminals are located on connector **CN2**.
3. Wire 24 VAC power to connector **CN1**.
4. Replace and secure the lid onto the back of the housing.
5. Once power is applied, the sensor will enter a 5-minute warm-up delay. The sensor should stabilize in approximately 3 to 5 minutes.



SRT Housing Dimensions



SRT Wiring Terminations








Supported Refrigerants

Refrigerant Type	PPM
HFCs - R22, R134a, R404A, R407, R407A, R407C, R407F, R410A, R507A, R448, *R449A and HFC, CFC, and HCFC profile blends. <u>*Reading only valid to 500ppm/50% of range.</u>	0 to 1000
CFCs - R11, R12, and HFC, CFC, and HCFC profile blends.	0 to 1000

Technical Specifications

Sensor Information	Semiconductor (SC)
Temperature Range	-4°F (-20°C) to 122°F (50°C) (Stand. housing)
Humidity (non-condensing)	0-95%
Sensor Life	5-8 years, typical
Time to Alarm (T50)	20 seconds, typical
Time to Alarm (T90)	50 seconds, typical
Recovery Time	900 seconds, typical
Scaling	0-5 VDC = 0-1000 PPM


E2 Input Setup

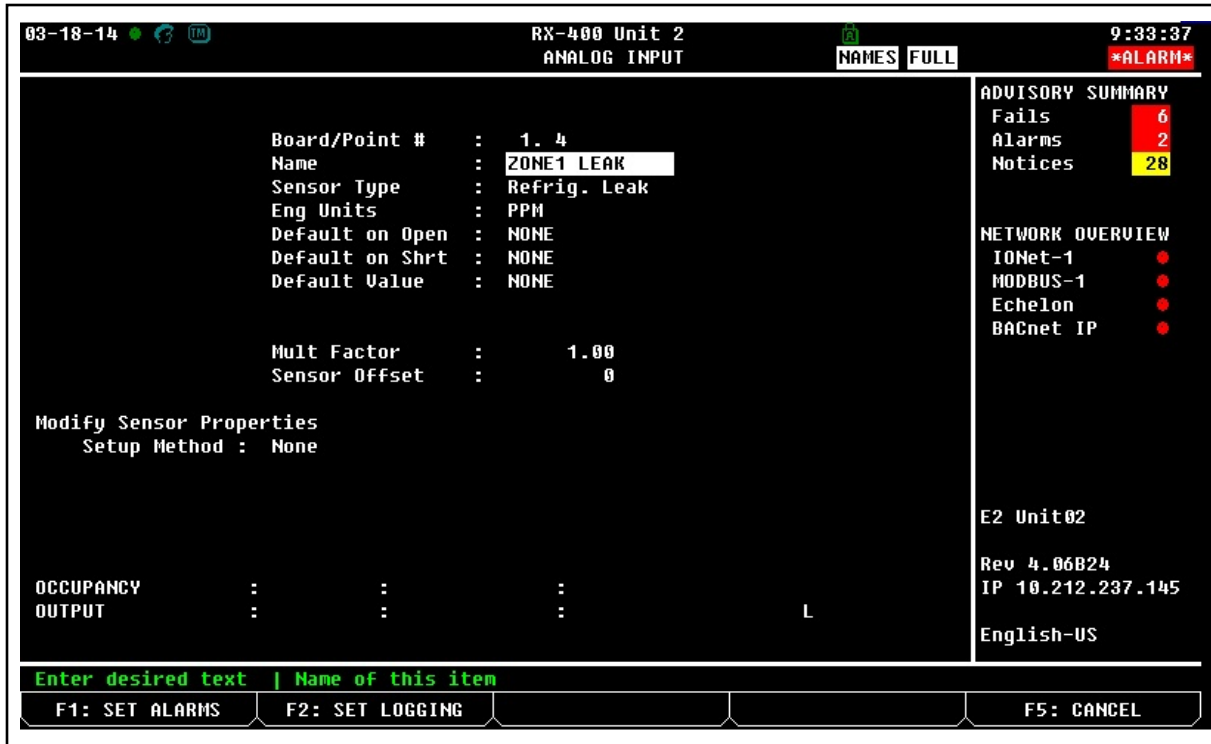
1. Log into the E2 and press    (Input Summary).
2. Highlight the input point the SRT is connected to, and press  (Setup).
When prompted to select the data type, press  (Analog).

In the Analog Input setup screen, enter the following information in the fields listed below:

- **Name:** A description of the sensor's function and/or location (for example, **ZONE1 LEAK**).
- **Sensor Type:** Refrig. Leak
- **Eng Units:** PPM

For the SRT, use the default settings. The Refrigerant Leak sensor type default settings are correct for the SRT.

Press  to save changes and exit the Analog Input setup screen.



```
03-18-14  RX-400 Unit 2  9:33:37
ANALOG INPUT  NAMES FULL  *ALARM*

Board/Point # : 1.4
Name          : ZONE1 LEAK
Sensor Type   : Refrig. Leak
Eng Units     : PPM
Default on Open : NONE
Default on Shrt : NONE
Default Value : NONE

Mult Factor   : 1.00
Sensor Offset : 0

Modify Sensor Properties
Setup Method : None

OCCUPANCY : : :
OUTPUT    : : : L

ADVISORY SUMMARY
Fails     : 6
Alarms    : 2
Notices   : 28

NETWORK OVERVIEW
IONet-1   :
MODBUS-1  :
Echelon   :
BACnet IP :

E2 Unit02
Rev 4.06B24
IP 10.212.237.145
English-US

Enter desired text | Name of this item
F1: SET ALARMS    F2: SET LOGGING    F5: CANCEL
```

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