



# TT-NEMA 4

## Metal Temperature Transmitter

### *Operation & Maintenance Manual*

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*Engineered for accuracy, applicability,  
durability and simplicity in HVAC air systems  
and industrial process control loops*

**TABLE OF CONTENTS**

TABLE OF CONTENTS..... i

1. INTRODUCTION ..... 1

    1.1. DESCRIPTION..... 1

    1.2. SPECIFICATIONS ..... 1

        1.2.1. Supply Voltage..... 1

        1.2.2. Combined Accuracy (Linearity, Hysteresis & Repeatability) ..... 1

        1.2.3. Temperature Range..... 1

        1.2.4. Output ..... 1

2. INSTALLATION ..... 2

    2.1. MECHANICAL DIMENSIONS..... 2

    2.2. TEMPERATURE TRANSMITTER CONNECTION LAYOUT ..... 2

    2.3. MICROTRANS<sup>EQ</sup> TO TEMPERATURE TRANSMITTER CONNECTION..... 3

    2.4. MICROTRANS<sup>II</sup> TO TEMPERATURE TRANSMITTER CONNECTION ..... 4

    2.5. MULTI-TRANS SMART ECOSYSTEM (MTSE) TO TEMPERATURE TRANSMITTER CONNECTION..... 5

## 1. INTRODUCTION

### 1.1. DESCRIPTION

The RTD and transmitter are matched and calibrated as a complete assembly in a temperature chamber against a NIST traceable calibrated standard. The transmitter is a 2 wire 4-20mA loop powered device calibrated to a temperature range of -30°F to 130°F.

### 1.2. SPECIFICATIONS

#### 1.2.1. Supply Voltage

10.5 to 45VDC

#### 1.2.2. Combined Accuracy (Linearity, Hysteresis & Repeatability)

±0.20% of full scale

#### 1.2.3. Temperature Range

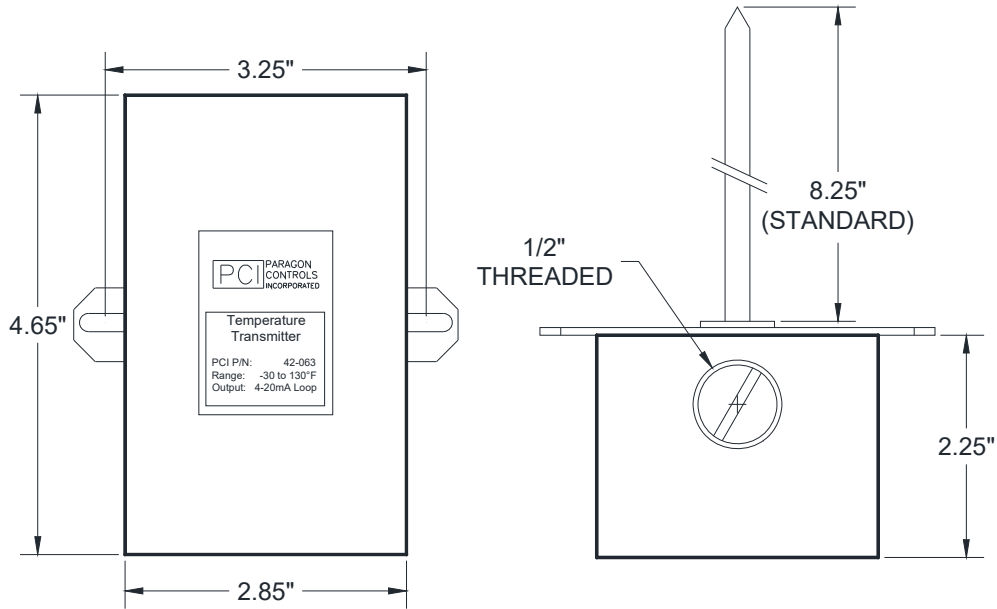
-30°F to 130°F

#### 1.2.4. Output

4-20mA

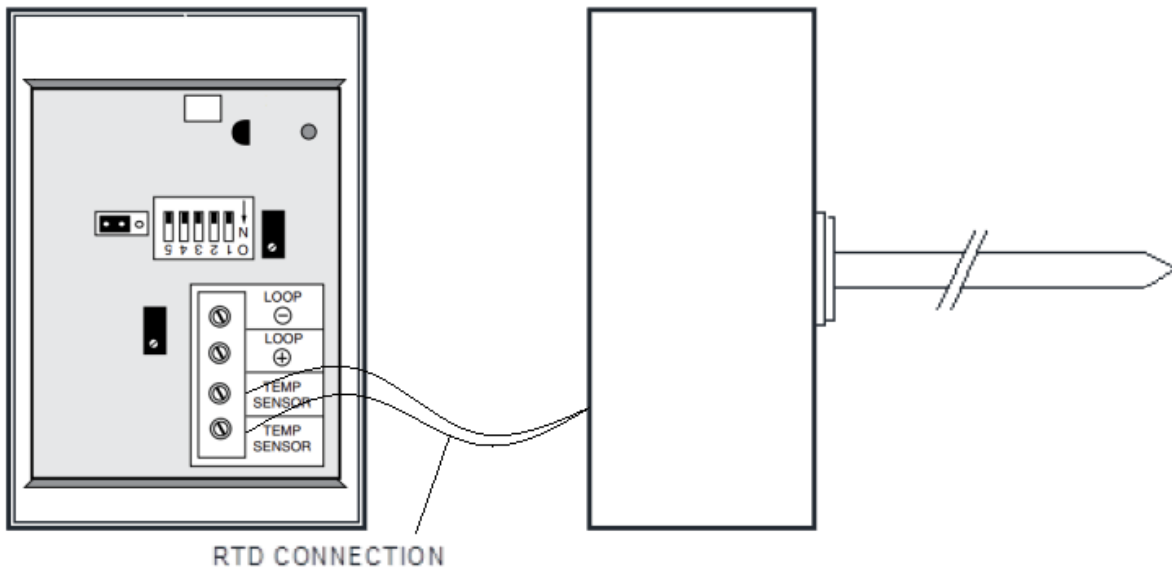
## 2. INSTALLATION

### 2.1. MECHANICAL DIMENSIONS



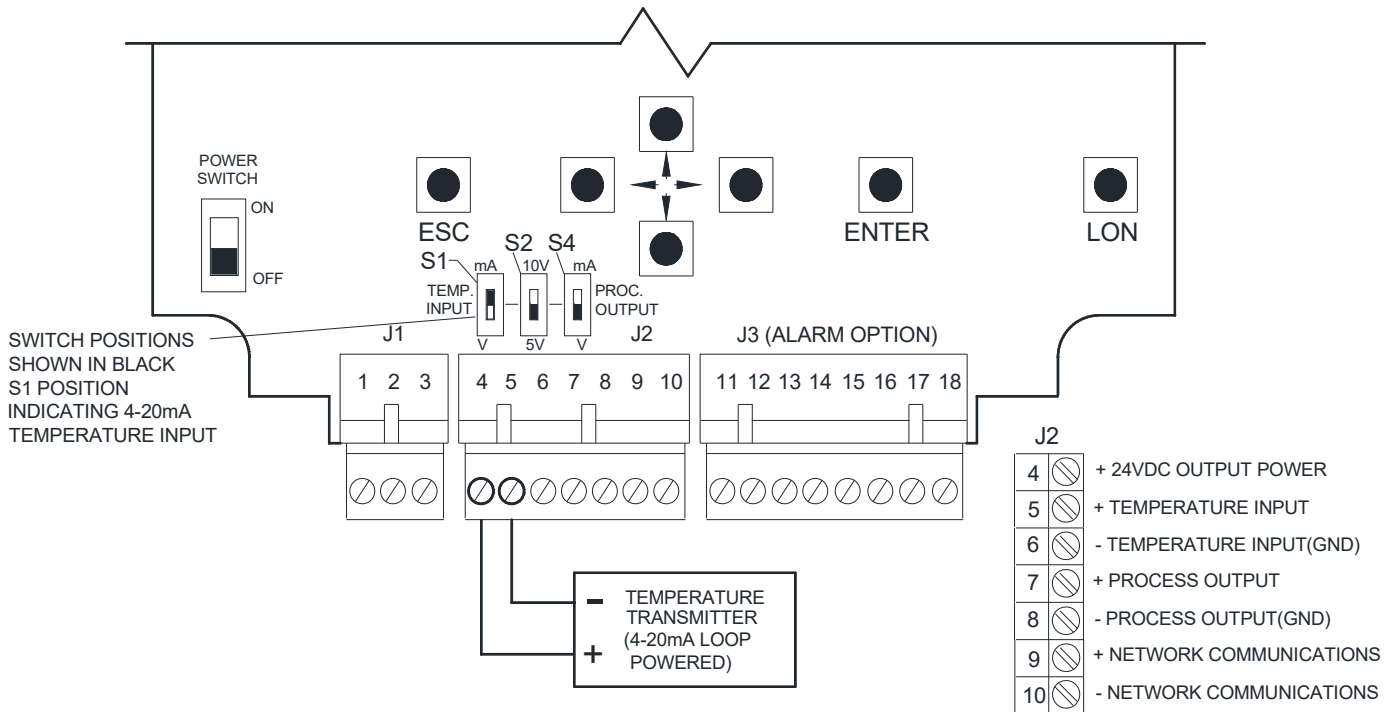
### 2.2. TEMPERATURE TRANSMITTER CONNECTION LAYOUT

- Remove the Temperature Transmitter cover
- The Temperature Transmitter enclosure incorporates two 1/2-inch threaded conduit connections.
- Refer to the below figure for Temperature Transmitter connector location.



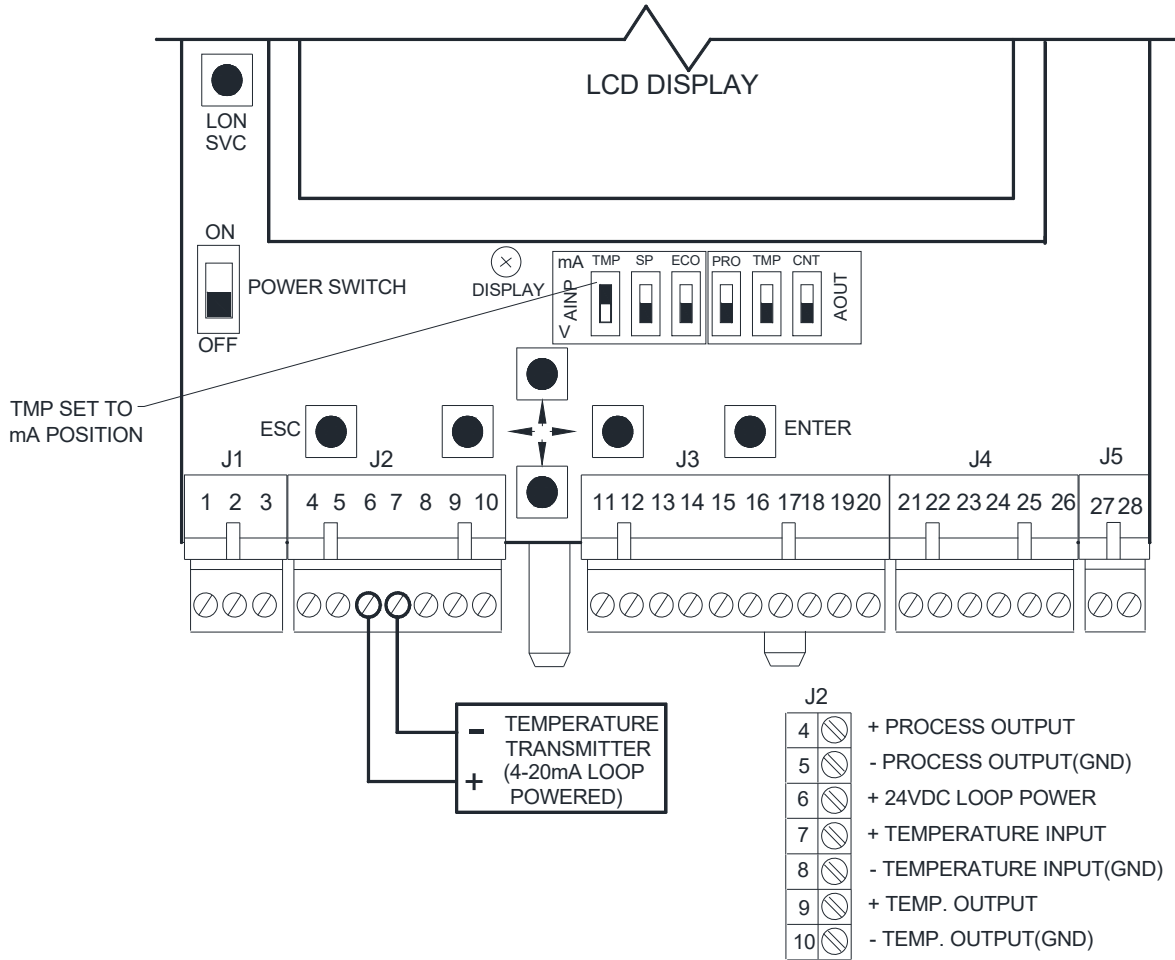
### 2.3. MICROTRANS<sup>EQ</sup> TO TEMPERATURE TRANSMITTER CONNECTION

- Remove the MicroTrans<sup>EQ</sup> cover by turning each corner cover mounting screw counterclockwise.
- The MicroTrans<sup>EQ</sup> board has removable plugs for ease of installing the interface wiring. *(Caution - All electrical connections must be made with the MicroTrans<sup>EQ</sup> power switch in the OFF position)*
- Refer to figure below for connector location.



## 2.4. MICROTRANS<sup>II</sup> TO TEMPERATURE TRANSMITTER CONNECTION

- Remove the MicroTrans<sup>II</sup> cover by turning each corner cover mounting screw counterclockwise.
- The MicroTrans<sup>II</sup> board has removable plugs for ease of installing the interface wiring.  
*(Caution - All electrical connections must be made with the MicroTrans<sup>II</sup> power switch in the OFF position)*
- Refer to figure below for connector location.



## 2.5. MULTI-TRANS SMART ECOSYSTEM (MTSE) TO TEMPERATURE TRANSMITTER CONNECTION

- Remove the MTSE cover by unlatching the two clasps
- The MTSE board has removable plugs for ease of installing the interface wiring.  
*(Caution - All electrical connections must be made with the MTSE power switch in the OFF position)*
- Refer to figure below for connector location.

