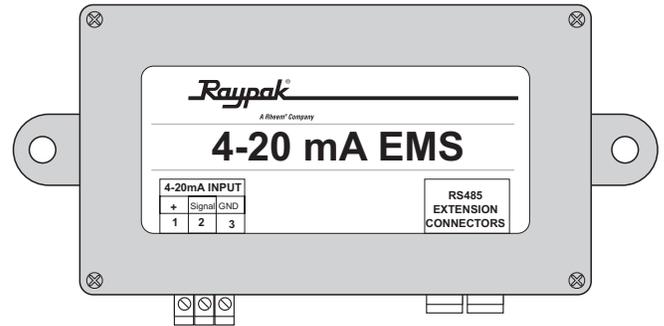


APPROVED INSTALLATION AND OPERATING INSTRUCTIONS

4-20mA EMS Interface

**Adds 4-20mA Setpoint
capability to
TempTracker Mod+
Control System**



IMPORTANT SAFETY INSTRUCTIONS. READ AND FOLLOW ALL INSTRUCTION. SAVE THESE INSTRUCTIONS.

NOTE: These instruction are for the use of qualified individuals specially trained and experienced in the installation and maintenance of this type of equipment and related system components. Installation and service personnel are required by some states to be licensed. Persons not qualified shall not attempt to install, service, or maintain this equipment.

These instructions should be maintained in legible condition and kept adjacent to the unit or in a safe place for future use.



Effective: 07-30-21
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P/N 241323 Rev. 3

UNCONTROLLED DOCUMENT IF PRINTED

APPROVED
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Revision 3 reflects the following changes:

Reformatted to current standards.

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1. INTRODUCTION

The 4-20mA EMS Interface (sales order option B-39, kit 012019) provides the TempTracker Mod+ control with the capability of receiving an external Setpoint as a 4-20mA signal through Energy Management or Building Management Systems (EMS/BMS). The External Setpoint is a temperature input and can also function as a Shutdown signal.

2. WIRING

Wiring the EMS Signal

- The signal must be a two-wire 4-20mA.
- A system sensor must be installed to the TempTracker Mod+ control.
- The External Setpoint must be set up correctly (See TempTracker Mod+ documentation). These settings will allow the TempTracker Mod+ to read and monitor the system temperature and also monitor the 4-20mA input to remotely adjust the setpoint to the desired value.
- If the EMS/BMS or other equipment signal provides the DC current, attach the (+) side of the EMS/BMS signal to the 4-20mA EMS Interface terminal marked SIGNAL. Attach the (-) side of the EMS/BMS signal to the 4-20mA EMS Interface terminal marked GND as shown in **Figure 1**.

The 4-20mA EMS Interface can provide the DC current for the 4-20mA input signal. If using the 4-20mA EMS Interface to provide the power, attach the (+) side of the EMS/BMS signal to the 4-20mA EMS Interface terminal marked +. Attach the (-) side of the EMS/BMS signal to the 4-20mA EMS Interface terminal marked SIGNAL as shown in **Figure 2**.

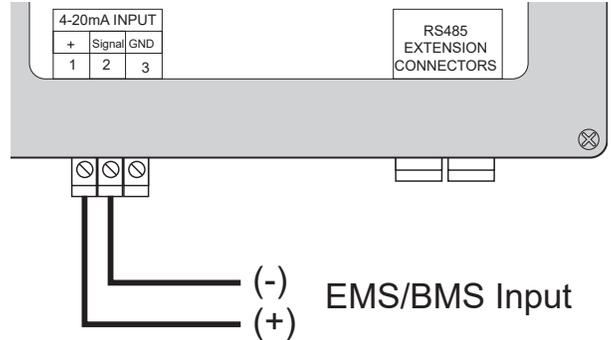


Figure 2. TempTracker Provides Current for 4-20 mA Signal

Connect the TempTracker Mod+, 4-20mA EMS interface and up to two Extension Panels in the order shown in **Figure 3** for proper operation using the 6-wire phone cables provided.

EMS 4-20mA input scale is shown in **Figure 4**.

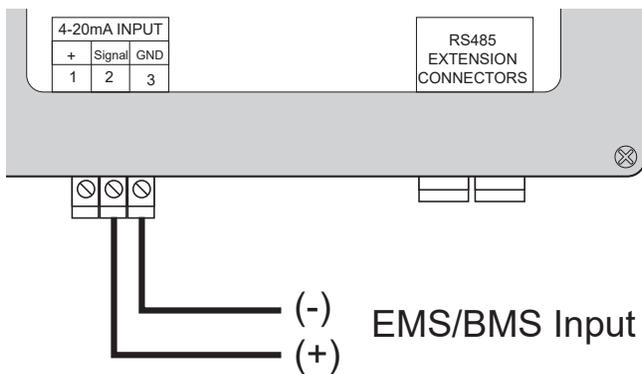
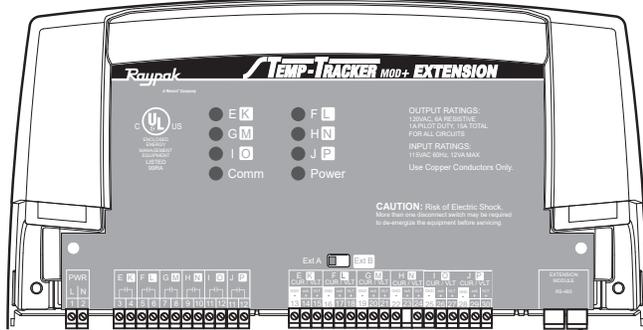
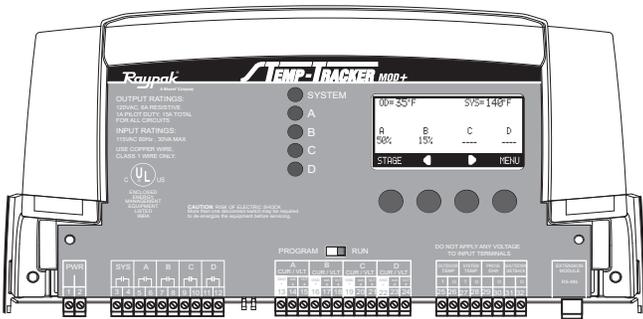


Figure 1. External Device (e.g. BMS) Provides Current for 4-20 mA Signal

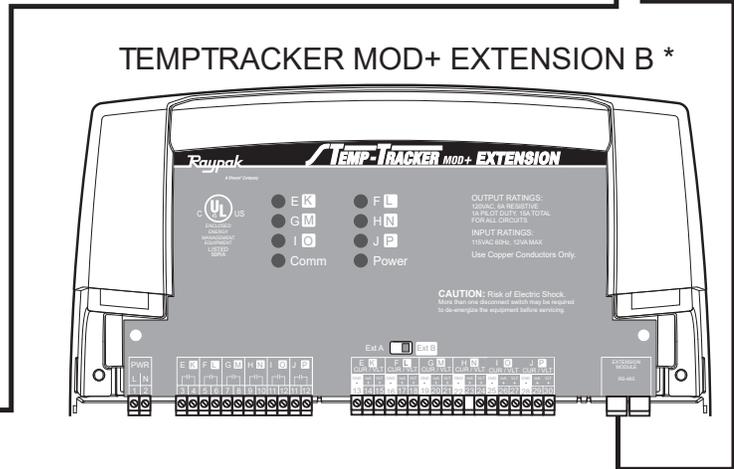
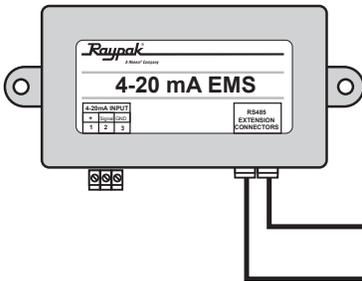
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TEMPTRACKER MOD+

TEMPTRACKER MOD+ EXTENSION A*



4-20MA EMS INTERFACE



* WHEN USED

Figure 3. Connecting 4-20mA EMS Interface to TempTracker Mod+ with Two Extension Panels using RS485

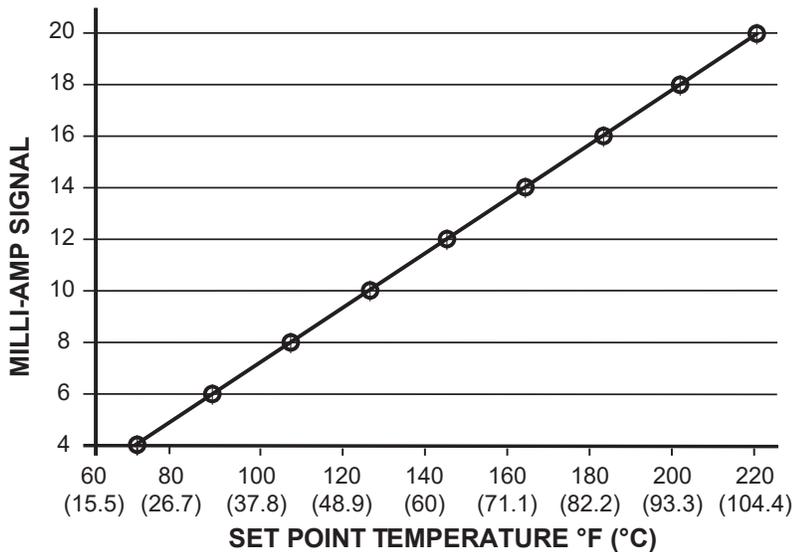


Figure 4. Default EMS 4-20mA Input Scale (70°–220°F)

NOTE: Scale is user-adjustable to match system design characteristics.

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NOTES: