

## OPTIMA *Series*

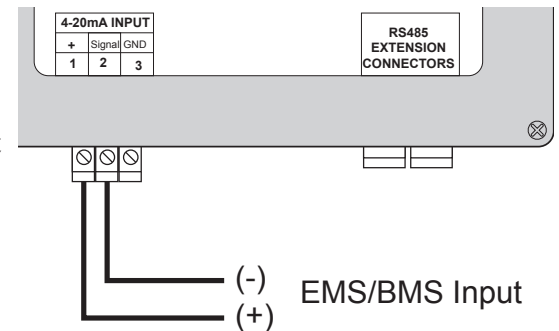
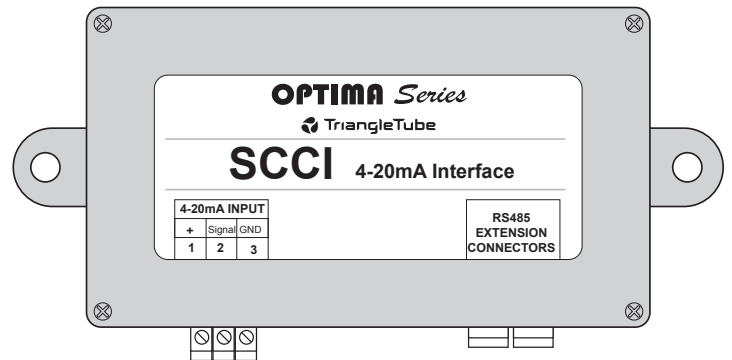
### Adds 4-20mA Remote Set Point Capability to SCC4 Controls

The SCCI Interface provides the SCC4 (modulating boiler control) with the capability of receiving an external Set Point as a 4-20mA signal through an Energy Management Systems or Building Management Systems (EMS/BMS). In addition, the SCC4 can be shutdown by the EMS/BMS system.

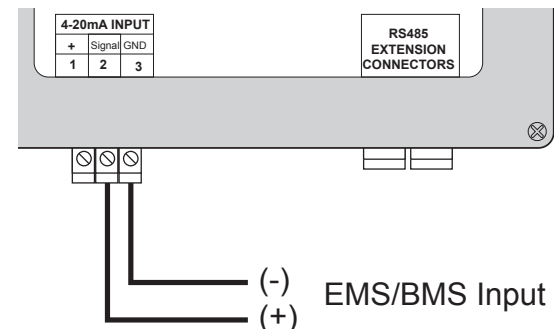
#### WIRING

##### Wiring the EMS Signal

- The signal must be a two-wire 4-20mA.
- A system sensor must be installed to the SCC4.
- The External Set Point must be set up correctly (See SCC4 documentation). These settings will allow the SCC4 to read and monitor the system temperature and also monitor the 4-20mA input to remotely adjust the set point to the desired value.
- The SCCI Interface can source the current for the 4-20mA input signal. It provides an excitation DC current. If using the SCCI Interface to source the power, attach the (+) side of the EMS/BMS signal to the SCCI Interface terminal marked +. Attach the (-) side of the EMS/BMS signal to the SCCI Interface terminal marked SIGNAL.
- If the EMS/BMS or other equipment signal sources the current (provides the excitation voltage), attach the (+) side of the 4-20mA input to the SCCI Interface terminal marked SIGNAL. Attach the (-) side of the 4-20mA input to the SCCI Interface terminal marked GND.



##### SCCI Interface Sources DC Excitation Voltage

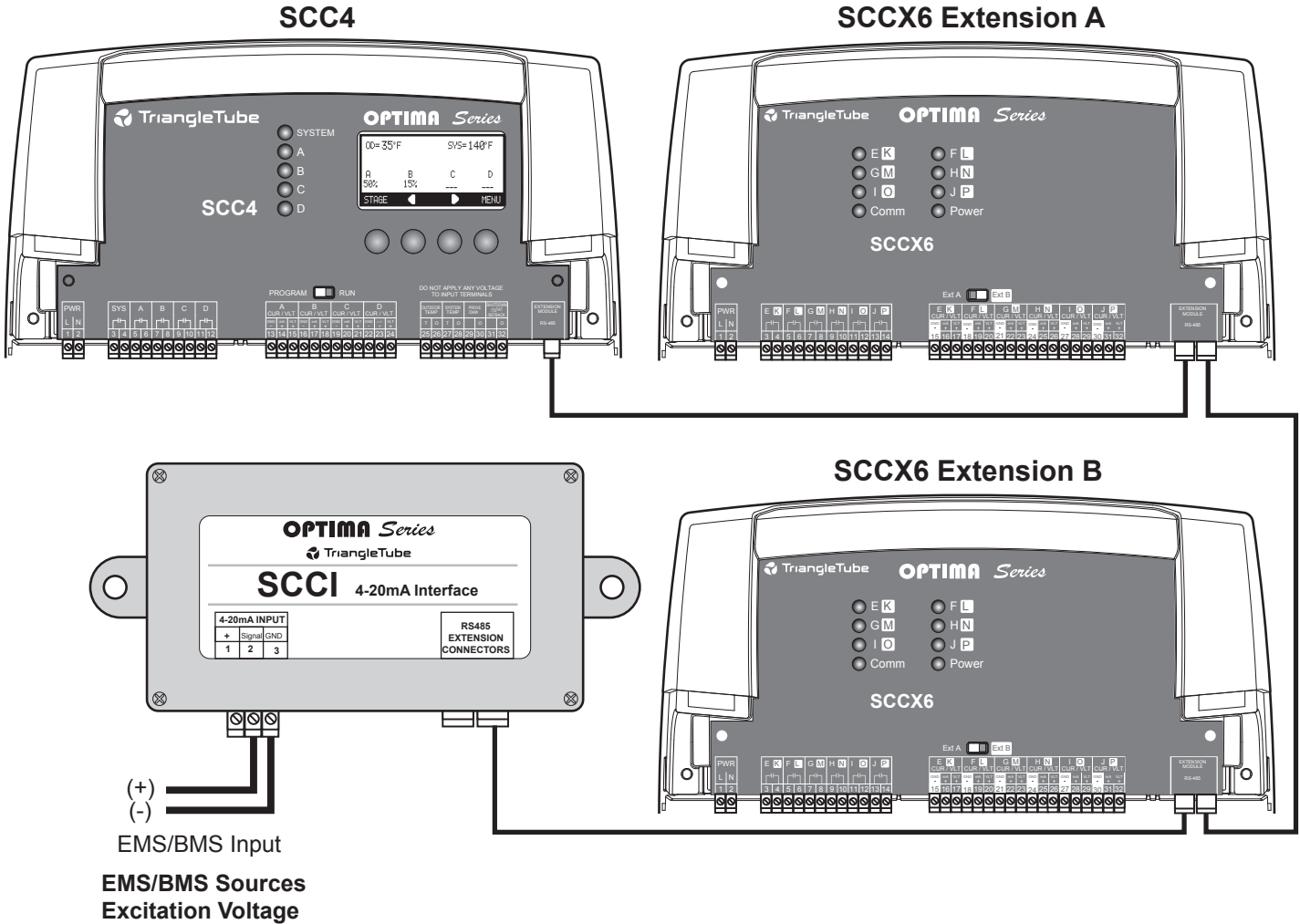


##### EMS/BMS Sources Excitation Voltage

**⚠ WARNING**

The SCCI Interface can either source DC current or accept DC current from an EMS/BMS System. Each configuration has a different wiring schematic. Wiring the current to the “+” and “Signal” terminals will damage the SCCI Interface.

## Connecting SCC4 to Two SCCX6 Extension Panels and SCCI 4-20mA Interface using RS485



### Connecting the SCCI Interface to the SCC4

- The SCCI Interface connects to the SCC4 using an RS485 (phone plug).
- When having to use the RS485 to connect to Extensions, use the extra RS485 (phone plug).
- The control, SCCI Interface and two Extensions can be connected in series using the RS485.