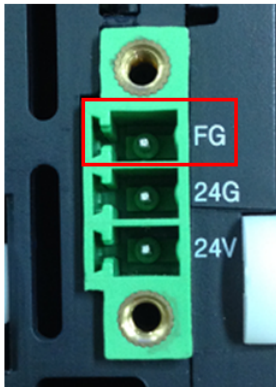




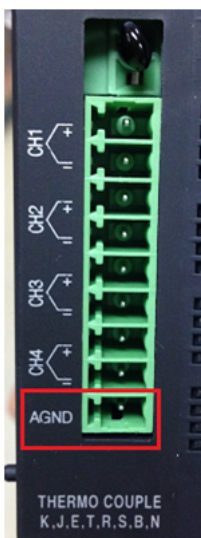
**What is the difference between AGND and FG for SP04ETO?  
When each should be used?**

## FG for CM3-SP04ETO



- FG (Frame Ground):
  - FG should be wired to a factory or building ground.
  - FG must be wired when there is a need to compensate the hunting issue in the temperature values detected by SP04ETO (Thermocouple module). In this case, make the wire connection of FG to the factory or building ground for each CM3 PLC-S CPU and SP04ETO.
- 24G: 0V for DC 24V (Power Supply)
- 24V: (+) for DC 24V (Power Supply)

## AGND for CM3-SP04ETO



- AGND (Analog Ground):
  - The purpose of using AGND is to help improve the channel hunting issue caused by external noise.
  - AGND is used only when SP04ETO is connected to the various equipment and performs as a bridge.
  - Hunting of the measured temperature values could be caused by the electrical interference between the various equipment. In this case, make the wire connection between the SP04ETO AGND and the AGND output port of the other device.