NOTES:

1. WARNING: This drawing does not completely illustrate the installation methods required for hazardous locations. Prior to any installation in a Classified Hazardous Location, verify installation methods by the Control Drawing referenced on the product's name tag and national and local codes.

2. To access the termination boards of the NGC and XMV, remove the enclosures rear covers.

3. For RTD installation, remove jumpers from XMV terminals 11-12, 13-14 and the 175Ω resistor from terminals 12-14.

4. The RS-485 bus must be wired in a daisy-chain configuration. Star configurations are not allowed.

5. Maximum accumulated length for the RS-485 bus is 4000 feet.

J9

To terminate the bus on the NGC Board, jumper J9 Pin-1 to Pin-2

RS-485 Cable Entry
(Wiring Diagram is shown outside of conduit for clarity)

175Ω Resistor

RTD Probe
P/N 2011905

ABB XMV
P/N 1641022

Probe Cable Entry
(Wiring Diagram is shown outside of conduit for clarity)

120Ω - 250Ω Resistor
The last XMV on the bus should be terminated with this resistor jumpered across the COMM + and COMM – terminals (the 175Ω resistor discarded in Note 3 is acceptable for this termination).

RS-485 Cable, 6-Conductor
P/N: 2011648-001

Connect the Shield GND from the RS-485 cable at the enclosure end of the cable to the Chassis GND Lug located on the edge of the board. For every other RS-485 cable to an additional device, attach Shield GND to Shield GND. DO NOT ground at any other place.

NGC Term Bd.
P/N 2102080

In this configuration, Port 1 may not be used to communicate with other devices. To attach other devices, such as other NGCs, use Port 2.

REF: N/A