NOTES:
1. WARNING: This drawing does not illustrate completely 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. Up to 32 devices may be connected on the RS-485 buss, for up to a total combined distance of 4000 feet.
3. Units must be daisy-chained; No Star Configurations.

NGC PORT1 RS-485 2-WIRE W/GND TO RS-232 USING PATTON CONVERTER MODEL 2085F

510Ω 1/2W Resistor
(Mounted on back of connector)

DCE/DTE Switch

DCE/DTE SETTINGS:
Select DCE if communicating with a PC.
Select DTE if communicating with a MODEM.

Switch 1 is on solder side of termination board

1 & 2: Settings whether the receiving device sees the impedance of the converters transmitter as being "High" or "Intermediate" when the Transmitter is turned Off.
1 & 2 ON = Intermediate impedance.
1 & 2 OFF = High Impedance.

3: Determines the delay between the time the converter sees "RTS" and sends "CTS".
3 ON = 8 msec.
3 OFF = No delay

4: Determines whether the converter echoes data back to the transmitting device.
4 ON = Echo ON (Half-duplex only)
4 OFF = Echo OFF

5: Determines whether the Carrier is always ON, or controlled by "RTS".
5 ON = Controlled by "RTS"
5 OFF = Constantly ON

6: Selects the impedance of the Input Receiver.
6 ON = Low (120 Ohm)
6 OFF = High (16 kOhm)

7 & 8: Determines whether the converter is 2-wire (2-wire is half-duplex) or 4-wire.
7 & 8 ON = 2-wire mode.
7 & 8 OFF = 4-wire mode.

Totalflow Cable
P/N 2011648-001
Or
Use 20 AWG
shielded wire, 22 pF/
ft, 14 OHMs/1000 ft

Installations in a hazardous location will require a barrier.
SEE NOTE 1

TO TERMINATE NGC: Jumper 2 to 3 on J9 for first and intermediate units.
If the first unit is the only unit, jumper 1 to 2 to terminate.

PATTON CONVERTER
#2085F
P/N 2015445-002

NGC Term Bd.
P/N 2102080

TOTALFLOW
Products
L21014
UD
TITLE
NGC PORT1 RS-485 2-WIRE W/GND TO RS-232 USING PATTON CONVERTER MODEL 2085F

REF: N/A