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.

TOTALFLOW
Products
L21015
UD
NGC PORT2 RS-485 2-WIRE W/GND TO RS-232
USING PATTON CONVERTER MODEL 2085F
2103673
AA
1 OF 1

51Ω 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

ON
OFF

SWITCH 1 SETTINGS:
1 & 2: Sets 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 see “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.

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TOTALFLOW Cable
P/N 2011648-001

Use 20 AWG
shielded wire, 22 pF/
ft, 14 OHMs/1000 ft

RS232/485
PATTERN CONVERTER
#2085F
P/N 2015445-002

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

TO TERMINATE NGC:
Jumper 2 to 3 on J11 for first and intermediate units.
If the first unit is the only unit, jumper 1 to 2 to terminate.

NGC Term Bd.
P/N 2102080