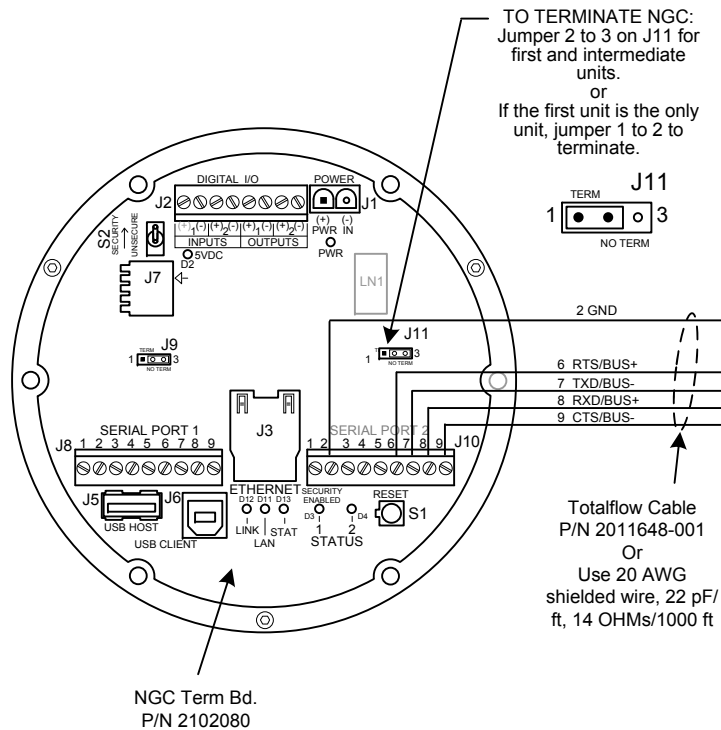
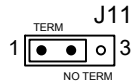


**NOTES:**

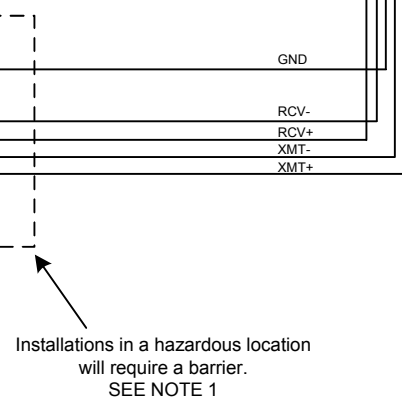
1. **WARNING:** This drawing does not illustrate completely the installation methods required for hazardous locations. Prior to any installation in a Classified Hazardous Location, verify installation methods by the Control Drawing referenced on the product's name tag and national and local codes.
2. 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.



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

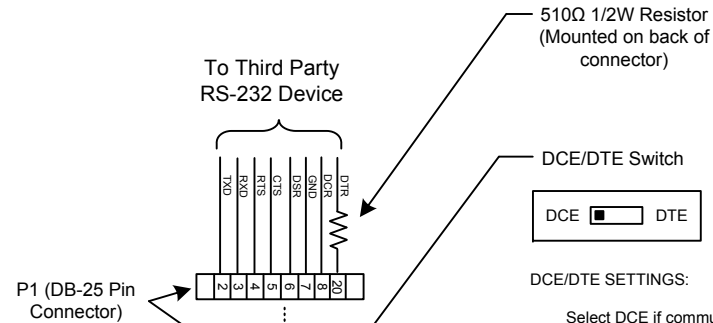


**RS232/485 PATTON CONVERTER #2085F**  
 P/N 2015445-002



**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



**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



**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.

REF: N/A

<b>ABB</b>	TOTALFLOW	ACTION	DOC TYPE	TITLE	DWG NO.	REV	SHEET
	Products	L21017	UD	NGC PORT2 RS-422 TO RS-232 USING PATTON CONVERTER MODEL 2085F	2103675	AA	1 OF 1