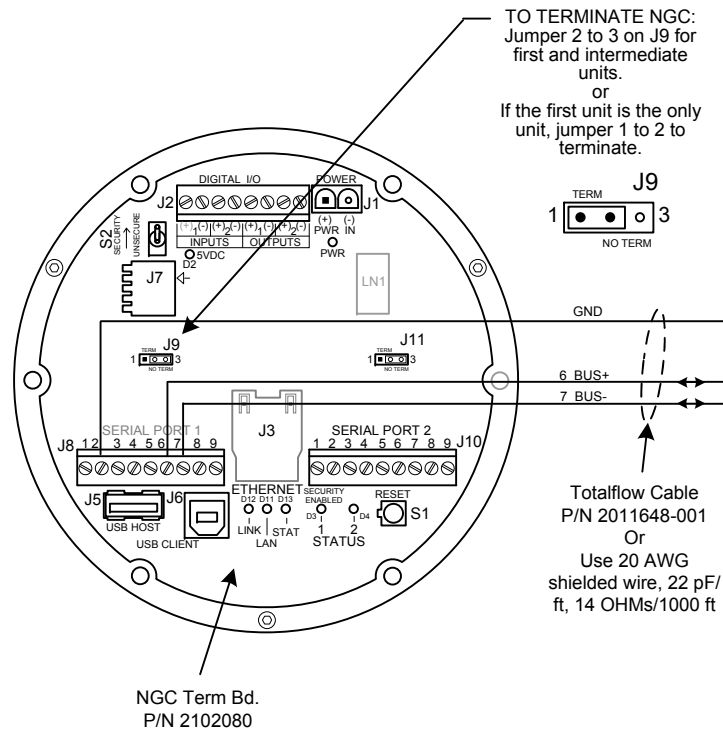


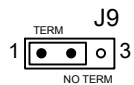
NOTES:

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.

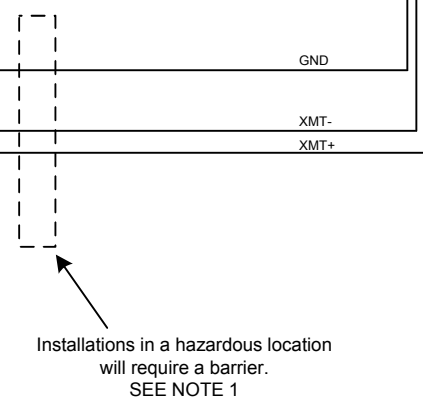


NGC Term Bd.
P/N 2102080

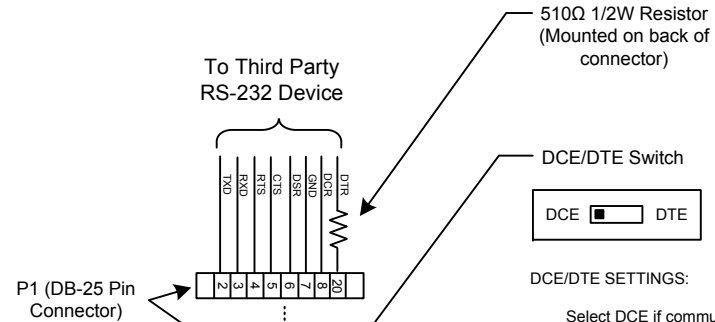
TO TERMINATE NGC:
Jumper 2 to 3 on J9 for
first and intermediate
units.
or
If the first unit is the only
unit, jumper 1 to 2 to
terminate.



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



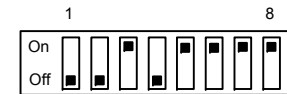
Totalflow Cable
P/N 2011648-001
Or
Use 20 AWG
shielded wire, 22 pF/
ft, 14 OHMs/1000 ft



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

ABB	TOTALFLOW	ACTION	DOC TYPE	TITLE	DWG NO.	REV	SHEET
	Products	L21014	UD	NGC PORT1 RS-485 2-WIRE W/GND TO RS-232 USING PATTON CONVERTER MODEL 2085F	2103672	AA	1 OF 1