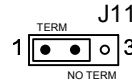


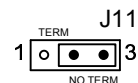
NOTES:

1. All installations in hazardous locations must comply with requirements listed by certification drawings related to this equipment. Check for the certification number on the nameplate and follow the specified requirements of this equipment.
2. For simplicity, this drawing differs slightly from the wiring interconnect in that power goes to P2-1 for Switched and Continuous. (See Note 3 below)

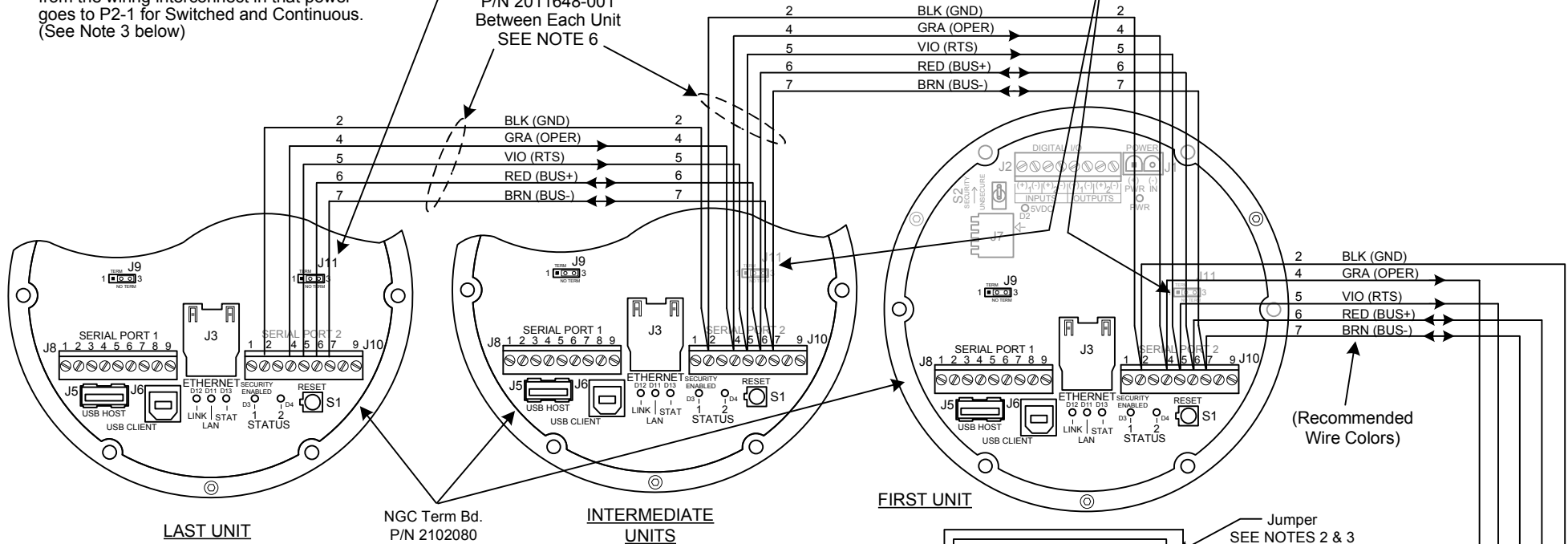
If the NCG board is the last device on the RS-485 buss, or if it is the only device, jumper J11 Pin-1 to Pin-2



If the NCG board is an intermediate device, and not the last device on the RS-485 buss, jumper J11 Pin-2 to Pin-3



Totalflow RS-485 Cable
P/N 2011648-001
Between Each Unit
SEE NOTE 6



3. For Switched power or to enable Power Scheduler for UC12, remove the jumper between 1 & 9 on P1 of UC12.
4. Maximum length of RS485 bus is 4000 Ft. @9600 baud using Totalflow cable P/N 2011648-001 or equivalent.
5. Units must be daisy-chained; No Star Configurations.
6. Cable Shielding – Cable segments between units should have their shields terminated on one end only. The RS-485 Cable (P/N 2011648-001) has two shields, each with its own drain wire. When connecting multiple units together, connect the two drain wires on the first unit to one of the two ground screws on the bottom left-hand side of the enclosure. Cut the cable and terminate the wiring on the second unit but do not connect the drain wires. On the next segment between the second and third units, connect the two drain wires to the second unit but not to the third unit. Repeat this process until all units are wired.
7. 12 VOLTS VBATT (WHT wire) used to power comm device should only be attached to a single NGC unit and never daisy-chained.

EXT
POWER
SUPPLY
12 – 17 VDC

J4 & P5 are the same line, J4 providing a RJ-11 phone jack and P5 providing for discrete wiring.

To phone company
if using phone line.

See phone company for
recommendations on
surge equipment.

FIRST UNIT

INTERMEDIATE UNITS

LAST UNIT

NGC Term Bd.
P/N 2102080

SEE NOTE 2 & 3

Jumper

RS232
J3

OPERATE-(GRA)
RTS-(VIO)
-BUS-(BRN)
+BUS-(RED)
GND-(BLK)
+12VSW/BATT

P2 RS485

PHONE JACK J4

TIP RING P5

GRN
RED

REF: N/A

ABB TOTALFLOW Products	ACTION D19397	DOC TYPE UD	TITLE UC12 W/EXT PWR TO NGC8206 (2102080 BD) PORT 2 (RS-485)	DWG NO. 2102481	REV AB	SHEET 1 OF 1
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