

**NOTES:**

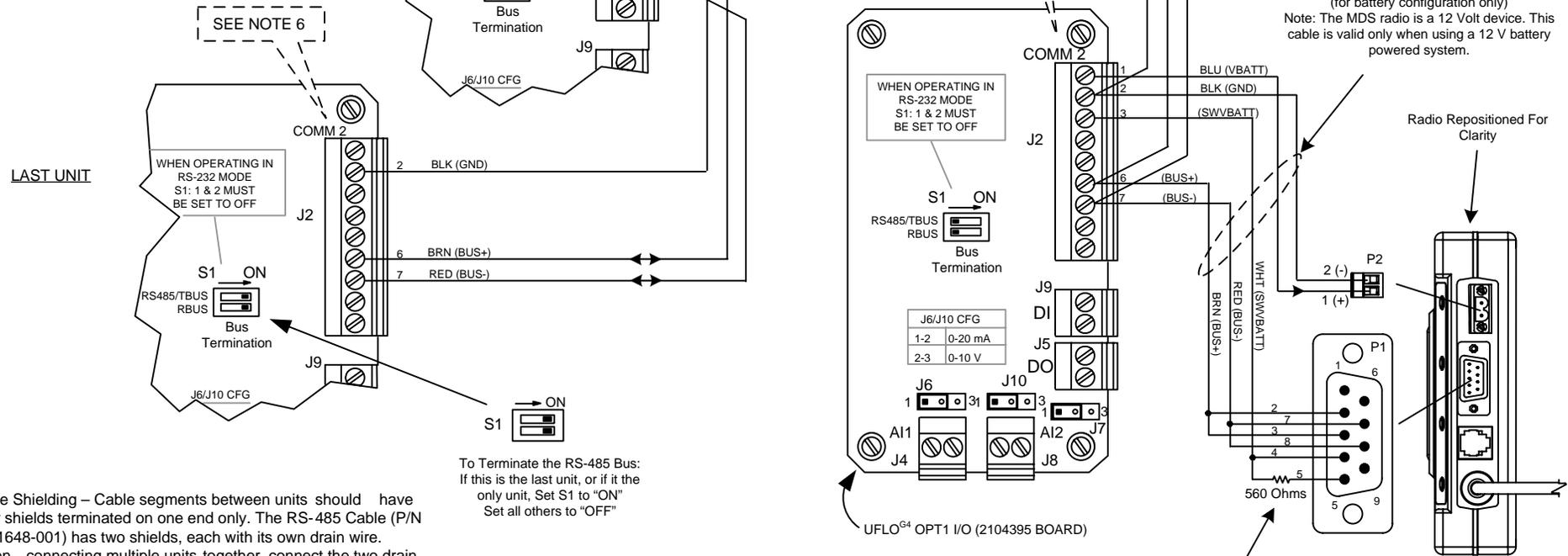
1. **WARNING:** This drawing does not illustrate the installation methods required for hazardous locations. Prior to any installation in a Classified Hazardous Location, verify installation methods by the Control Drawing referenced on the product's name tag and national and local codes.
2. **WARNING!** Using a non-factory RS485 data cable may result in damage and may void system warranty.
3. Maximum length of RS485 bus is 4000 Ft. @9600 baud using Totalflow cable P/N 2011648-001 or equivalent.
4. No Star Configurations.

**INTERMEDIATE UNITS**

**FIRST UNIT**

**PRIMARY SETUP ITEMS FOR TRANSNET 900 RS-485 RADIOS:**

1. *Mode R.*
  2. *ADDR XXXX* - where (xxxx) is radio's address, which is also the same as the Master Radio's Address.
  3. *SLEEP ON.*
  4. *Port RS485.*
  5. *BAUD 9600 8,n,1* - (other baud rates and parity can be used but needs to match the flow computer).
- Note: Typically, all other setup items can be left in their default state.



5. **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.

6. The Jumper at J16 of the UFLO<sup>G4</sup> motherboard (Not shown on this page) sets the Power Options on the I/O board:

To Terminate the RS-485 Bus:  
 If this is the last unit, or if it the only unit, Set S1 to "ON"  
 Set all others to "OFF"

On the motherboard:  
 For Solar & Battery Power, Jumper Pin 1 to Pin 2  
**Note:** Power to J17 by ABB approved charging source.

For External Power Source: Jumper Pin 2 to Pin 3.  
**Note:** DO NOT CONNECT A BATTERY TO J15.  
 Wire external power (9 - 30 Vdc) to charger connector J17.

**WARNING:** Power at J17 (up to 30 Vdc) is applied to the Communication connector terminals as power for radios, etc. Radio operation and the Inhibit feature may not work properly if other than a nominal 12 Vdc power source is utilized.

REF: N/A

	<b>TOTALFLOW</b> Products	ACTION	DOC TYPE	TITLE	DWG NO.	REV	SHEET
		D31825	UD	μFLO <sup>G4</sup> OPT1 I/O (2104395 BOARD) COMM2 TO MDS TRANSNET 900 RADIO (RS-485)	2104583	AB	1 OF 1