

NOTES:

- 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.
- WARNING:** Using a non-factory RS485 data cable between radio and first unit may result in damage and may void system warranty.
- Maximum length of RS485 bus is 4000 Ft. @9600 baud using Totalflow cable P/N 2011648-001 or equivalent.
- No Star Configurations.

Jumper 1 to 2 on J12 to terminate last unit on bus.

Jumper 2 to 3 on J12 for first and intermediate units.
or
If the first unit is the only unit, jumper 1 to 2 to terminate.

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

RS-485 Communications Module
Totalflow P/N 2015193-002
In Each Unit

Totalflow Cable
P/N 2101238-002

Radio Repositioned
For Clarity

Resistor Is Built In To
Factory Data Cable

P1 Legend

- Pin 2 - TXD+/TXA
- Pin 3 - RXD+/RXA
- Pin 4 - Sleep (Gnd = Sleep)
- Pin 5 - Signal Gnd
- Pin 7 - RXD-/RXB
- Pin 8 - TXD-/TXB

- 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.

PRIMARY SETUP ITEMS FOR TRANSNET 900 RS-485 RADIOS:

- Mode R.*
- ADDR XXXX* - where (xxxx) is radio's address, which is also the same as the Master Radio's Address.
- SLEEP ON.*
- Port RS485.*
- 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.

REF: 2101240-WI

ABB	TOTALFLOW Products	ACTION	DOC TYPE	TITLE	DWG NO.	REV	SHEET
		D22583	UD	XFC COMM 2 (2100204 BD) TO MDS TRANSNET 900 RADIO (RS-485)	2101795	AC	1 OF 1

