

NOTES:

1. All installations in hazardous locations must comply with requirements of certification Drawing 2017275-CD.
2. Maximum length of RS485 bus is 4000 Ft. @9600 baud using Totalflow cable P/N 2011648-001 or equivalent.
3. Units must be daisy-chained; No Star Configurations.

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.

Plug in modules with smooth side of the module on the left which puts pin 1 on the bottom.

RS-485 Communications Module
Totalflow P/N 2015193-002/003
In Each Unit.

Switched Battery Voltage –
Switches On/Off At Listen Cycle Frequency.
Zero Listen Time Causes Continuous Output.
Maximum Output Is 2 Amps. Turns Off If
Battery Voltage Drops To 11.9 Volts
Or A Programmable Voltage On Some Units.

Battery Voltage Output –
Max. 2 Amps
11.9 – 17.0 VDC
Does Not Turn Off Under
Any Condition.

To Third Party
RS-485 Device

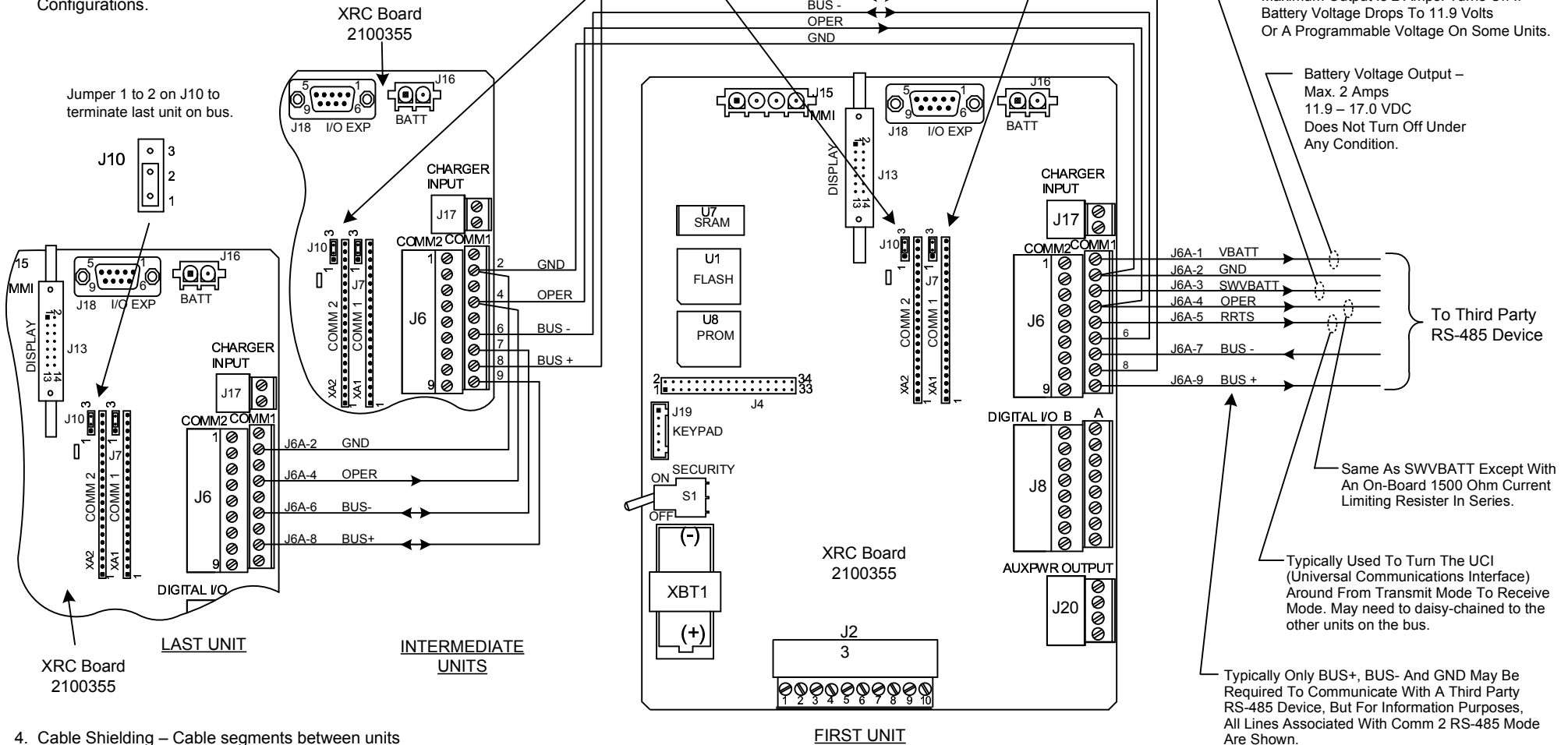
Same As SWVBATT Except With
An On-Board 1500 Ohm Current
Limiting Resistor In Series.

Typically Used To Turn The UCI
(Universal Communications Interface)
Around From Transmit Mode To Receive
Mode. May need to daisy-chain to the
other units on the bus.

Typically Only BUS+, BUS- And GND May Be
Required To Communicate With A Third Party
RS-485 Device, But For Information Purposes,
All Lines Associated With Comm 2 RS-485 Mode
Are Shown.

Hint:

In RS-485 Mode, terminals 6 & 7 (BUS-) and 8 & 9 (BUS+) are common to each other. Therefore, for BUS-, you can go in terminal 6 and out 7 or vice-versa. For BUS+, you can go in terminal 8 and out 9 or vice-versa.



REF: N/A

4. 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.



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TITLE
XRC 6490/6790/6890 COMM 1 (2100355 BD)
GENERIC WIRING GUIDE FOR RS-485

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