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 bus, for up to a total combined distance of 4000 feet. For this configuration, 2 RS-485 busses are required.

3. Units must be daisy-chained; No Star Configurations.

Comm1; Remote CCU Protocol, RS-485

Comm2; Therms Protocol: RS-485 Modbus ASCII

NGC to XFC SLAVES to XRC MASTER
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.
   For this configuration, 2 RS-485 busses are required.

3. Units must be daisy-chained; No Star Configurations.

TO TERMINATE XRC BOARD:
If the Master is the last unit, or is the only unit, jumper 1 to 2 to terminate.
Jumper 2 to 3 on J7 for first and intermediate units.

RS-485 Communications Module
Totalflow P/N 2015192
(Both modules are required on the boards for this configuration)

NGC Term Bd.
P/N 2102080

COMM1
RS-485
NGC to MASTER

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.

SLAVE #2
XFC Board
2100204
or
2015333

CHARGER INPUT

SLAVE #1
XFC Board
2100204
or
2015333

CHARGER INPUT

MATERIAL:

Totalflow RS-485 Cable
P/N 2011648-001

Or

Use 20 AWG shielded wire, 22 p/ft, 14 OHMs/1000 ft
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.
   For this configuration, 2 RS-485 busses are required.
3. Units must be daisy-chained; No Star Configurations.

RS-485 Communications Module
Totalflow P/N 2015192
(Both modules are required
On the boards for this configuration)

TO TERMINATE XRC BOARD:
If the Master is the last unit, or is the only unit, jumper 1 to 2 to terminate.
Jumper 2 to 3 on J10 for first and intermediate units.

TO TERMINATE XFC BOARDS:
Jumper 2 to 3 on J12 for first and intermediate units.
If the first unit is the only unit, jumper 1 to 2 to terminate.

TO TERMINATE NGC:
Jumper 2 to 3 on J11 for first and intermediate units.
If the first unit is the only unit, jumper 1 to 2 to terminate.

COM2
RS-485
NGC to MASTER

MASTER
XRC Board
2100355

SLAVE #1
XFC Board
2100204
or
2015333

SLAVE #2
XFC Board
2100204
or
2015333
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 bus, for up to a total combined distance of 4000 feet. For this configuration, 2 RS-485 busses are required.
3. Units must be daisy-chained; No Star Configurations.

![Diagram of NGC W/PLC to XFC SLAVES to XRC MASTER with labels:
Comm1; Remote CCU Protocol, RS-485
Comm1: RS-232
Slave #1 (XFC)
Slave #2 (XFC)
Master (XRC RTU)
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. The RS-232 connection to PLC has a suggested length of 25 feet or less.
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.
   For this configuration, 2 RS-485 busses are required.
3. Units must be daisy-chained; No Star Configurations.

COMM1
RS-485
SLAVE#2 to MASTER

RS-485 Communications Module
Totalflow P/N 2015192
(Both modules are required
On the boards for this configuration)

TO TERMINATE XRC BOARD:
If the Master is the last unit, or is the only unit, jumper 1 to 2 to terminate.
or
Jumper 2 to 3 on J7 for first and intermediate units.

TO TERMINATE XFC BOARDS:
Jumper 2 to 3 on J11 for first and intermediate units.

If the first unit is the only unit, jumper 1 to 2 to terminate.

MASTER
XRC Board
2100355

SLAVE #1
XFC Board
2100204
or
2015333

SLAVE #2
XFC Board
2100204
or
2015333

refs: N/A
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.
   For this configuration, 2 RS-485 busses are required.
3. Units must be daisy-chained; No Star Configurations.

RS-485 Communications Module
Totalflow P/N 2015192
(Both modules are required
On the boards for this configuration)

TO TERMINATE XRC BOARD:
If the Master is the last unit, or is the only unit, jumper 1 to 2 to terminate.
If Jumper 2 to 3 on J10 for first and intermediate units.

TO TERMINATE NGC:
Jumper 2 to 3 on J11 for first and intermediate units.
If the first unit is the only unit, jumper 1 to 2 to terminate.