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; Remote CCU Protocol, RS-485

Comm2; Therms Protocol: RS-485 Modbus ASCII

NGC to XFC SLAVES to XFC 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.

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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.

NGC Term Bd.
P/N 2102080

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SLAVE #2
XFC Board
2100204
or
2015333

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

TO TERMINATE XFC 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 J11 for first and intermediate units.

MASTER
XFC Board
2100204

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SLAVE #1
XFC Board
2100204
or
2015333

Totalflow RS-485 Cable
P/N 2011648-001
Or
Use 20 AWG shielded wire, 22 p/ft, 14 OHMs/1000 ft

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REF: 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.

SLAVE #2
XFC Board
2100204 or 2015333

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

TO TERMINATE XFC 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 J11 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.

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.

COMM2
RS-485
NGC to MASTER

SLAVE #1
XFC Board
2100204 or 2015333

MASTER
XFC Board
2100204
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.
4. 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 Classfied 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.

COMM1
RS-232 TO PLC

NGC Term Bd.
P/N 2102080

TO PLC
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.

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

TO TERMINATE XFC 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 J11 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.

NGC Term Bd.
P/N 2102080

RS-485 Communications Module
Totalflow P/N 2011648-001
Or
Use 20 AWG shielded wire, 22 pF/ft, 14 OHMs/1000 ft

TOTALFLOW Products
L19097 UD NGC TO XFC SLAVE TO XFC MASTER

REF: N/A