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. To access the Main NGC termination board, remove the Rear End Cap of the unit (a 1/16" Hex Set Screw must be loosened to remove the Cap).

DC POWER & COMM
Totalflow P/N 2102296-001
SEE SHEET 3 for RS-232
SEE SHEET 4 for RS-485
SEE SHEET 5 for RS-422

Carrier and Sample Gas Regulators
NOTE:
DO NOT connect a low pressure switch directly to the NGC. A barrier must be installed for this.
SEE SHEET 2 for Options

Heater
120V AC, 400 WATT, Class 1, Div 1
Totalflow P/N 1800698-001
Or
230V AC, 400 WATT, ATEX, Class 1, Zone 1
Totalflow P/N 1801628-001
SEE SHEET 6 for Wiring Interconnect
SEE SHEET 2 for Options

NGC8200 Cold Weather Enclosure
Totalflow P/N 2102298

Main Unit
Auxiliary Unit

WIRING INTERCONNECT FEATURES
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. To access the Main NGC termination board, remove the Rear End Cap of the unit (a 1/16" Hex Set Screw must be loosened to remove the Cap).

Bottle Rack Option
Totalflow P/N 2101076-001
NOTE: With any Carrier and Sample Gas Regulators, DO NOT connect a low pressure switch directly to the NGC. A barrier must be installed to use those.

Catalytic Heater Option
Totalflow P/N 1800582-001
1500 BTU/HR, 12V DC, Brust # 6-6
SEE SHEET 7 for Wiring Interconnect
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. To access the Main NGC termination board, remove the Rear End Cap of the unit (a 1/16" Hex Set Screw must be loosened to remove the Cap).

DC Power & Communications Option
Totalflow P/N 2102296-001
(Wiring shown outside of conduit for clarity)

POWER & RS-232 WIRING INTERCONNECT

ABB TOTALFLOW Products  ACTION  Doc Type  Title  Dwg No.  Rev  Sheet
L19649  UD  NGC DUAL8200 COLD WEATHER ENCLOSURE WIRING INTERCONNECTS  2103090  AA  3 OF 7

To Auxiliary NGC8200

RS-232 Configuration to NGC
Customer Configuration

12-15V DC Power Supply

Switch

Customer Supplied Conduit

Terminal Box Enclosure
2102261-001 Bd
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. To access the Main NGC termination board, remove the Rear End Cap of the unit (a 1/16th Hex Set Screw must be loosened to remove the Cap).

3. Maximum combined length of RS-422 Buss is 4000 feet.

4. Units must be daisy-chained. No star configurations.

TERMINATING 422 PORTS

For Each COM:
If the NGC unit is the last device on the RS-422 Bus, or if it is the only device, jumper Pin-1 to Pin-2

If it is the first in a series, or a part of a series (if it is not the last device), jumper Pin-2 to Pin-3

RS-422 Configuration to NGC
Customer Configuration

12-15V DC Power Supply

Switch

To Customer Communications Device

Customer Supplied Conduit

POWER & RS-422 WIRING INTERCONNECT

DC Power & Communications Option
Totalflow P/N 2102296-001
(Wiring shown outside of conduit for clarity)
1. **WARNING:** This drawing does not illustrate completely the installation methods required for hazardous locations. Prior to any installation in a Classifed Hazardous Location, verify installation methods by the Control Drawing referenced on the product’s name tag and national and local codes.

2. To access wiring remove the End Cap of the explosion-proof unit.

Heater
120V AC, 400 WATT, Class 1, Div 1
Totalflow P/N 1800698-001

Or
230V AC, 400 WATT, ATEX, Class 1, Zone 1
Totalflow P/N 1901628-001

Reset Button (Inside Enclosure)

To Customer-supplied
120V AC Power Source
or
230V AC Power Source

120VAC/230VAC HEATER
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. To access wiring remove the End Cap of the explosion-proof unit.

Customer-supplied 12V DC Power Source (Refer to the Bruest Wiring Instructions, before installing an ignition source)

Catalytic Heater Option
Totalflow P/N 1800582-001
1500 BTU/HR, 12V DC, Bruest # 6-6

CATALYTIC HEATER OPTION