

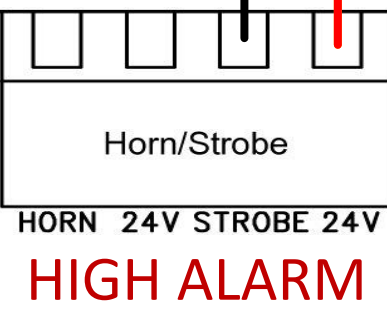
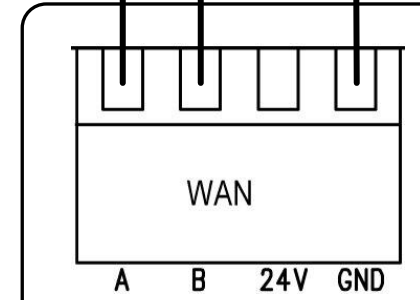
BY OTHERS

WAN-BACnet NOTES

BAS

BAUD RATE: 76,800 (DEFAULT, CONFIGURABLE)
BASE ADDRESS: 270 (FACTORY DEFAULT)
MAC ADDRESS: 100 (FACTORY DEFAULT)
BACNET ID: 270100 (Base Address x 1000 + the MAC Address)
DATA BITS: 8
STOP BIT: 1
PARITY: NONE

A+ B- GND



LAN 1

J12 TERM

LAN 2

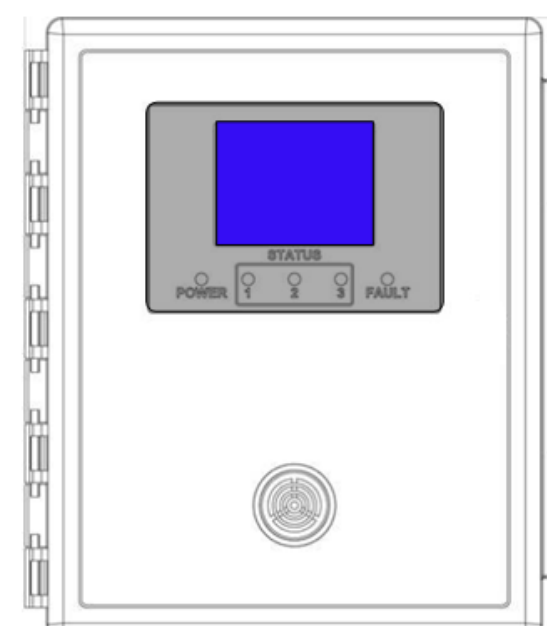
RLY 1 LOW ALARM

RLY 2 MID ALARM

RLY 3 HIGH ALARM

RLY 4 FAULT

FCS-32-B
Controller



120-240 VAC
SUPPLY

Inside FCS
Enclosure

FCS Power
Supply

Earth Ground Shield Terminated at the FCS Only

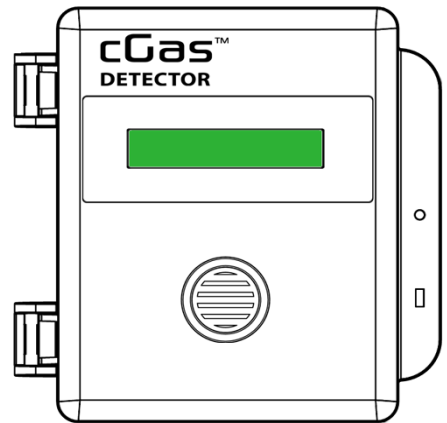
ALARM SETPOINTS & SEQUENCE OF OPERATIONS :
CO = 25 LOW, 50 MID, 100 HIGH (PPM)
NO2 = 0.7 LOW, 1.0 MID, 1.5 HIGH (PPM)

LOW ALARM: ACTIVATE EXHAUST FANS, ETC.

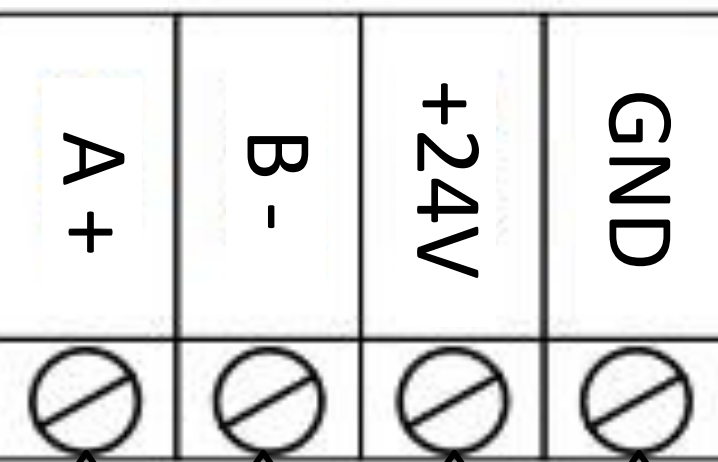
HIGH ALARM: LOCAL AUDIBLE AND VISUAL ALARM



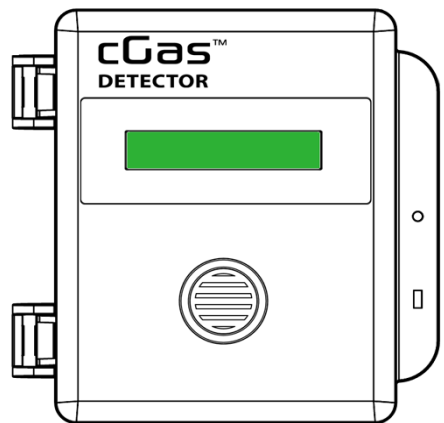
ID 101
CGAS-D-CO-NO2



TB1



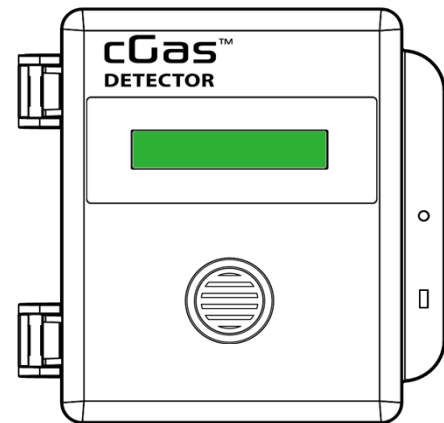
ID 102
CGAS-D-CO-NO2



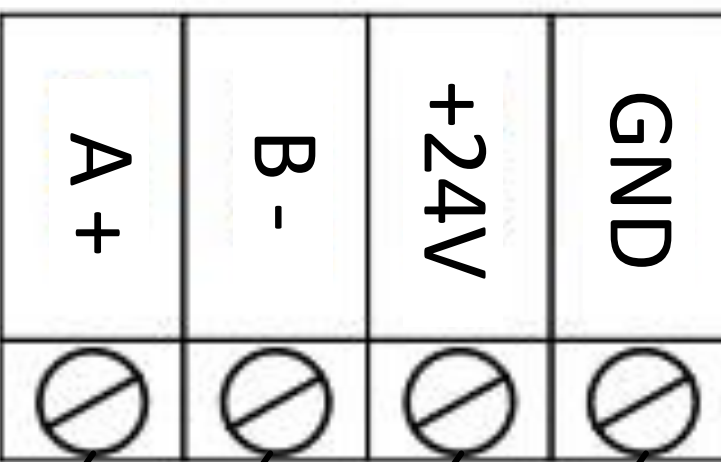
TB1



ID 108
CGAS-D-CO-NO2



TB1



J6 TERM

EOL

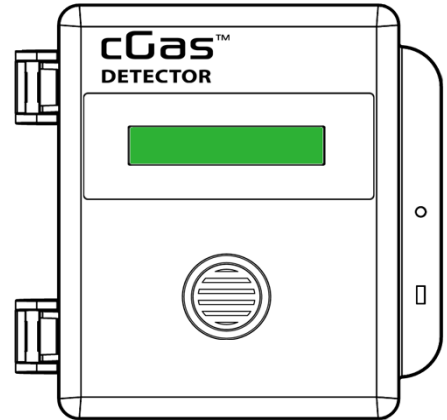
CONTINUE DAISY CHAIN
WIRING FOR ALL
TRANSMITTERS IN BETWEEN
PREVIOUS AND LAST

TO ID 103

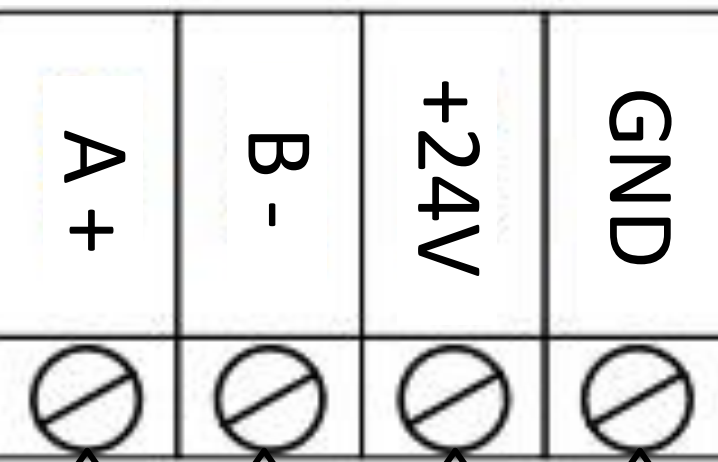
FROM ID 107

Bare shield wire insulated (taped) to avoid touching electronics
when enclosure door is closed causing short circuit

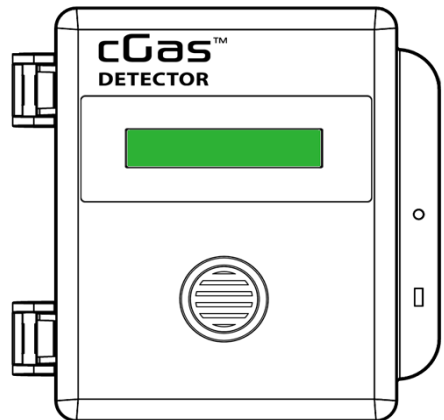
ID 109
CGAS-D-CO-NO2



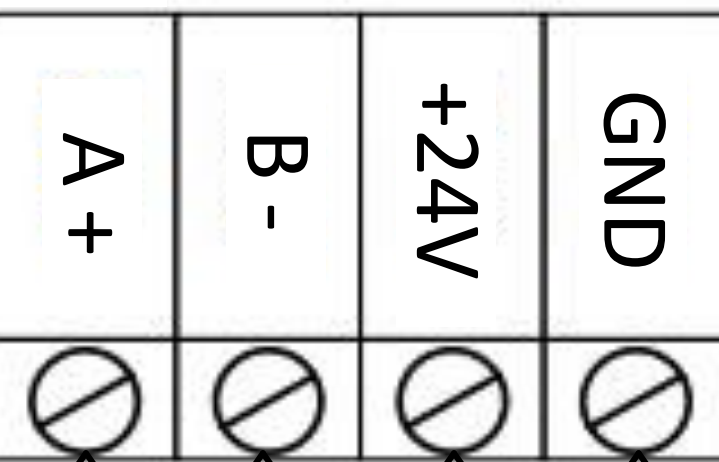
TB1



ID 110
CGAS-D-CO-NO2



TB1



ALL TRANSMITTERS CAN BE DAISY
CHAINED FROM ONE LAN TERMINAL.
THIS IS AN EXAMPLE OF USING BOTH
LAN TERMINALS IF DESIREABLE.

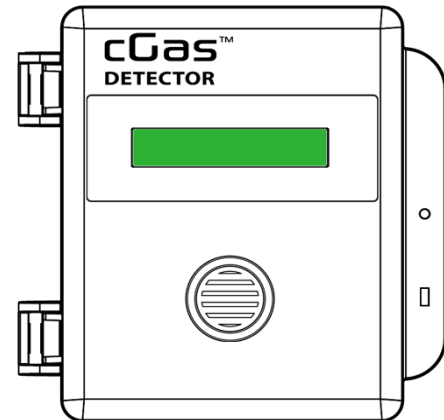
IF ONLY ONE LAN TERMINAL IS USED,
MOVE **END-OF-LINE J12** JUMPER ON FCS
TO THE **RIGHT** POSITION.

CONTINUE DAISY CHAIN
WIRING FOR ALL
TRANSMITTERS IN BETWEEN
PREVIOUS AND LAST

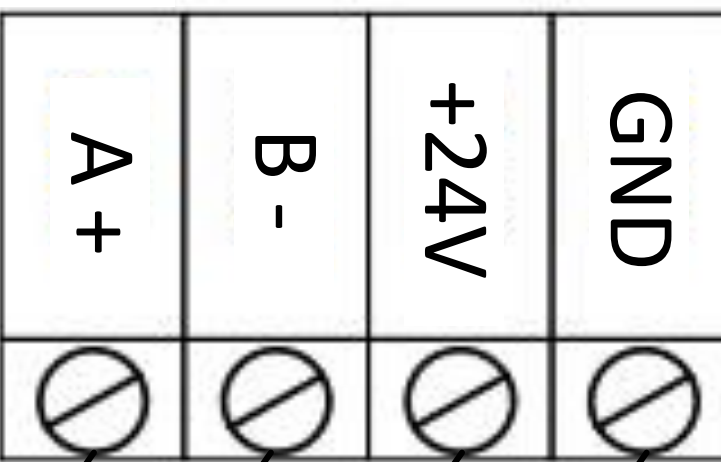
TO ID 111

FROM ID 115

ID 116
CGAS-D-CO-NO2



TB1



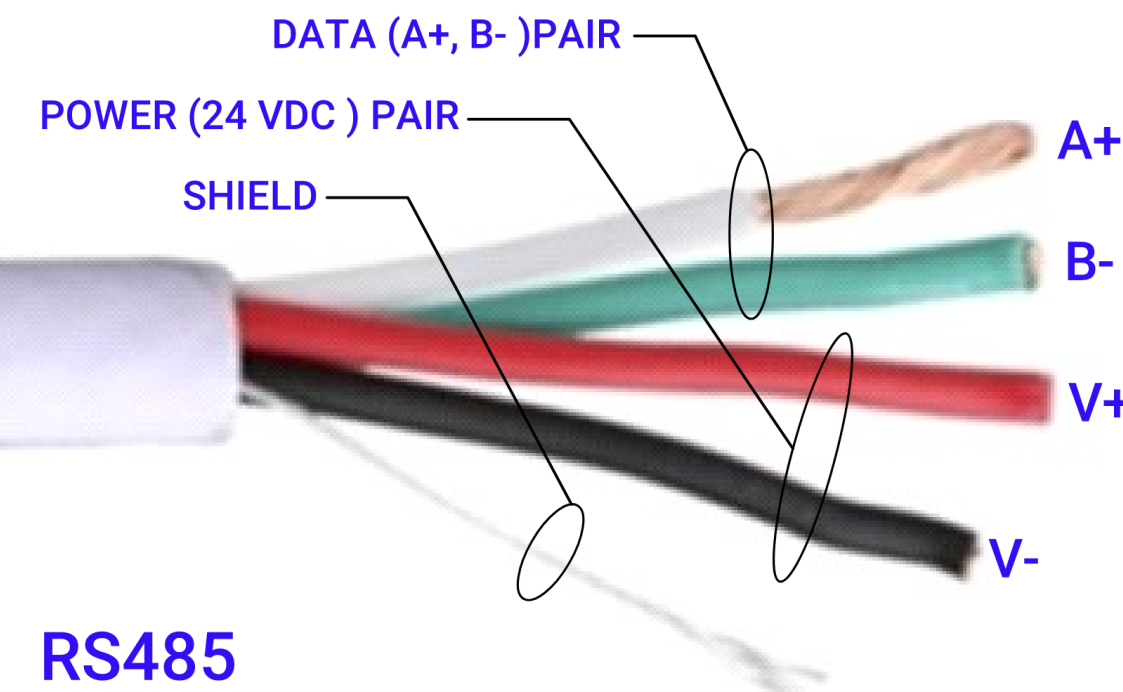
J6 TERM

EOL

A

WIRING NOTES

- FOR MODBUS RS485 USE 4 CONDUCTOR, 4 COLOUR 16 AWG STRANDED, SHIELDED (Belden 5202FE 008500) OR EQUIVALENT IN CONDUIT. DO NOT USE SOLID CORE.
- DAISY CHAIN WIRING, NO -T- DROP TRUNK CONFIGURATION.
- BUILT-IN, END OF LINE TERMINATION JUMPER IS ENABLED ONLY AT THE BEGINNING AND AT THE END OF 4-WIRE CIRCUIT.
- THE SHIELD OF THE COMMUNICATION WIRE MUST BE GROUNDED AT ONE POINT INSIDE THE FCS CONTROLLER.
- DO NOT RUN CABLE CLOSE TO FLUORESCENT LIGHTING OR HIGH VOLTAGE LINE.
- ALL SENSORS MUST BE ACCESSIBLE FOR SERVICE BY A QUALIFIED TECHNICIAN.



RS485

Disclaimer: Please note that this material is intended to be diagrammatic only; it is based on information provided at the time of creation. We take no responsibility for cabling, conduit locations, or distances; additional equipment may be required for a successful installation.

CLIENT NAME:

PROJECT NAME:



Unit 145
7391 Vantage Way
Delta, BC, Canada
V4G 1M3

www.critical-environment.com
1-877-940-8741

DRAWING REFERENCES

DATE:

REV: 1.00

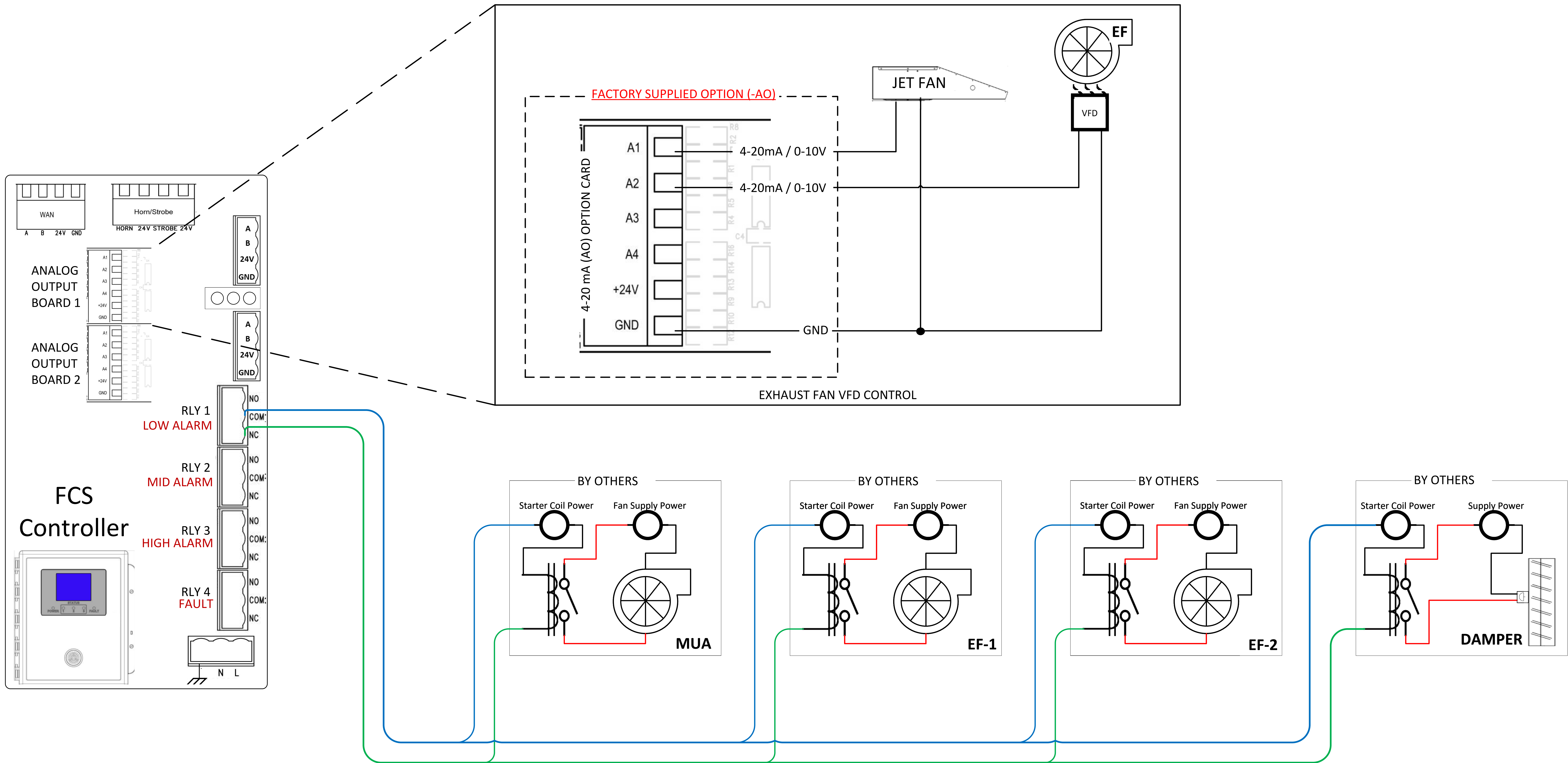
DRAWN BY:

DRAWING TITLE

FCS-32-B SYSTEM WIRING

DRAWING #

G-01



ALARM SETPOINTS & SEQUENCE OF OPERATIONS : CO = 25 LOW, 50 MID, 100 HIGH (PPM) NO2 = 0.7 LOW, 1.0 MID, 1.5 HIGH (PPM) LOW ALARM: ACTIVATE EXHAUST FANS, ETC. HIGH ALARM: LOCAL AUDIBLE AND VISUAL ALARM	RELAY NOTES	
	RELAYS ARE RATED FOR 240VAC, 5A MAX. RELAYS DO NOT PROVIDE POWER.	
	RELAYS ARE CONTROL CONTACTS ONLY AND MUST NOT DRIVE ANY VENTILATION SYSTEM OR ANY DEVICE DIRECTLY AND MUST HAVE A SEPARATE POWER SOURCE TO BE PROVIDED BY THE INSTALLER.	
	RELAYS ARE CONFIGURED FAIL-SAFE. WIRE CONNECTION TO NC AND COM.	

Disclaimer: Please note that this material is intended to be diagrammatic only; it is based on information provided at the time of creation. We take no responsibility for cabling, conduit locations, or distances; additional equipment may be required for a successful installation.	CLIENT NAME:		 Unit 145 7391 Vantage Way Delta, BC, Canada V4G 1M3 www.critical-environment.com 1-877-940-8741	DRAWING REFERENCES			DRAWING TITLE		DRAWING #		
	PROJECT NAME:					DATE:		FCS CONTROL WIRING		G-02	
						REV: 1.00					
						DRAWN BY:					

