



#### **REFRIGERANT DETECTION SYSTEM - EQUIPMENT**

FCS: MULTI CHANNEL CONTROL SYSTEM (UP TO 128 CHANNELS) WITH...

- FOUR RELAYS RATED 5A @ 240VAC, LCD DISPLAY, INTERNAL BUZZER WITH SILENCE
- MANUAL SHUTOFF SWITCH (-SW)
- TOP MOUNTED STROBE (-L)

CGAS-D-IR: SINGLE CHANNEL REFRIGERANT DETECTOR/TRANSMITTER WITH ONE RELAY RATED 5A @ 240VAC, INTERNAL BUZZER

CET-RDM: REMOTE DISPLAY MODULE

RLY-8: REMOTE RELAY MODULE (8 RELAY OUTPUTS PER MODULE)

LNK-AO: REMOTE ANALOG OUTPUT MODULE (4 ANALOG OUTPUTS PER MODULE)

RSH-24V: REMOTE HORN/STROBE

RPS-24VDC: REMOTE POWER SUPPLY (1 FOR EVERY 16 TRANSMITTERS)

#### **SEQUENCE OF OPERATIONS**

LOW ALARM: DETECTION OF 50PPM R123 OR 250PPM FREON REFRIGERANT SHALL ACTIVATE VENTILATION SYSTEM

HIGH ALARM: DETECTION OF 150PPM R123 OR 1000PPM FREON REFRIGERANT SHALL ACTIVATE HORN/STROBE AND SHUTDOWN CHILLERS

#### **SYSTEM NOTES:**

1. REFRIGERANT SENSOR LOCATION AT 6-8 INCHES ABOVE FINISHED FLOOR
2. REFRIGERANT SENSOR TO HAVE DETECTION RADIUS OF 31 FEET
3. ALL TRANSMITTERS AND REMOTE MODULES TO BE 4-WIRE DAISY CHAINED FROM CONTROLLER
4. SYSTEM TO COMMUNICATE VIA MODBUS RS485 FOR DATA COMMUNICATION
5. RECOMMENDED WIRE: 4 CONDUCTOR, 4 COLOR, 16 AWG STRANDED, SHIELDED. DO NOT USE SOLID CORE
6. CONTROLLER POWERED BY 90-240VAC