



REFRIGERANT DETECTORS

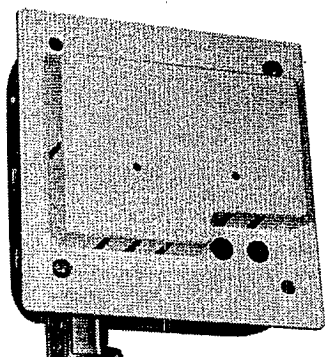
refrigeration

air conditioning

cold storage facilities

super markets

automotive



FD-11

F-Series – CFCs (R11, R12, R22, R62, R113, R502)

R-Series - HCFCs (R123, R134)

Specify refrigerant to be detected.

For Control Panels

FD-11 one relay
FD-12 two relays
RD-1 one relay
RD-2 one relay

- Fixed set point.
- Variable setpoint (RD-1)

120 Volt

FD-21-1-BR

- 120 VAC
- 85 DB buzzer @ 10 feet
- N.O. Alarm Relay

Analog Transducer

FT-11

- Dual analog output
4 to 20 MA
1 to 5 V
- Set range
0 to 5000 PPM

Standard Features:

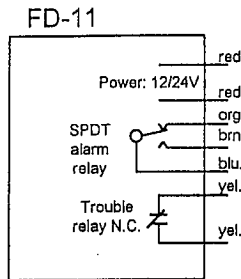
- Easy Installation.
- Low Maintenance
- Supervised system, solid state sensor.
- Reed type relays N.O.
- Operating Temperature -15 to 150 F
- Mounts in standard 4 x 4 electrical box.

Manufactured By



3946 S. Mariposa Street
Englewood, Colorado 80110
303-781-4062 Fax: 303-761-6640
www.macurco.com

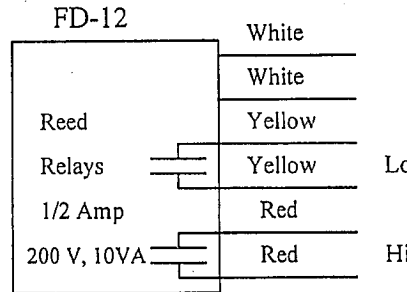
Wiring Diagrams:



POWER
12 to 24
VAC or VDC

SPDT
Alarm Relay

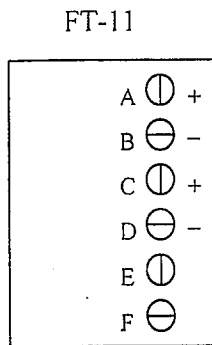
N.C.
Trouble Relay



POWER
12 to 24 VAC or VDC

N.O.
Dry Contacts

No polarity
preference



LINEAR OUTPUTS

A ⊕ + 1 to 5 V

B ⊖ -

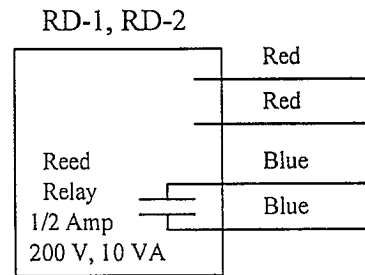
C ⊕ + 4 to 20 ma

D ⊖ -

E ⊕ +

F ⊖ -

POWER
24 VAC or VDC



POWER
12 to 24 VAC or VDC

N.O.
Dry Contacts

No polarity
preference

Specifications:

	FD-11	FD-12	RD-1
Power	12-24V AC/DC	12-24V AC/DC	12-24V AC/DC
Size	4 1/2 x 4 1/2 x 2	4 1/2 x 4 1/2 x 2	4 1/2 x 4 1/2 x 2
Shipping Weight	One pound	One pound	One pound
Output	One relay	Two relays	One relay
Set Point	1000 PPM	1000/2500 PPM	Variable, 25 to 275 PPM
Set Point (R12 Only)	4000 PPM	4000/10,000 PPM	N/A
Relay Maximum Rating	0.5 Amp, 200V	0.5 Amp, 200V	0.5 Amp, 200V
Operating Temperature	-15 to 150 degs. F	-15 to 150 degs. F	-15 to 150 degs. F
Operating Humidity	10 to 90 Percent	10 to 90 percent	10 to 90 Percent
	RD-2	FD-21-BR	FT-11
Power	12-24V AC/DC	120 VAC	24V AC/DC
Size	4 1/2 x 4 1/2 x 2	4 1/2 x 4 1/2 x 2	4 1/2 x 4 1/2 x 2
Shipping Weight	One pound	Two Pounds	One Pound
Output	One Relay	85DB Buzzer	4-20ma, 1-5V
Set Point	Specify 25 to 1000 PPM	1000 PPM	0 to 1000 PPM
Set Point (R12 Only)	N/A	4000 PPM	0 to 5000 PPM
Relay Maximum Rating	0.5 Amp, 200V	0.5 Amp, 200V	N/A
Operating Temperature	-15 to 150 degs. F	-15 to 150 degs. F	0 to 120 degs. F
Operating Humidity	10 to 90 Percent	10 to 90 Percent	10 to 90 Percent

Note: Special Calibrations are available upon request.