

RF-1

Transmitter for Single Compressor Refrigeration Unit Monitoring



The Notifact RF-1 transmitter provides economical 24/7 monitoring of single compressor refrigeration units. The system may be used to monitor up to eight points which include:

- **High temperature limit**
- **High pressure limit**
- **Low oil pressure**
- **Defrost cycle exceeded**
- **Compressor power**
- **Three user defined monitoring points**

When an alarm is triggered, the RF-1 sends the alert message over the North American AMPS (Advanced Mobile Phone System). The transmission is received at the Notifact messaging center and relayed to selected message recipients within minutes by pager (alphanumeric or numeric), fax, e-mail, XML, PCS or telephone (voice delivery). In the event of a loss of power to the Notifact transmitter, a battery backup enables the transmission of a "power loss" alert message.

As part of the monitoring system, the user is issued an ID and password for utilizing the Notifact website to configure which individuals are designated to receive each alert message and by what delivery method. Each message contains the alert which was triggered and the make, model and location of the monitored equipment.

Every 24 hours, the transmitter also transmits an equipment "heartbeat" to the user via the Notifact website. This transmission tells the user that the transmitter is functioning properly, powered and able to transmit. An alert will be dispatched to the user designated recipient in the event the transmitter failed to report its heartbeat. The daily "heartbeat" is viewed at the Notifact website by logging in and clicking on the appropriate RF-1 device number.

U.S. Patents No. 6,147,601, No. 6,160,477, No. 6,211,782. Other patents pending.


Notifact®
Wireless Monitoring...on-line

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Notifact Model RF-1 Features

- There are eight standard inputs. Four AC inputs monitor high pressure limit, low oil pressure, defrost run time and compressor power. Four dry contact closures monitor high temperature limit and three user defined inputs.
- Transmitter power accepts input voltages from 85 VAC to 240 VAC.
- Battery backup provides alert transmission if transmitter loses power for over 15 minutes
- Alert transmission triggered if backup battery power is low, high pressure limit trip, low oil pressure safety switch trip, high temperature limit exceeded for either 0 or 30 minutes, defrost cycle lasted more than 30/60 minutes (user selectable).
- User defined Aux 1 input can accept dry contact - for example, it could be connected to a high or low refrigerated space temperature thermostat.
- User defined Aux 2 input can accept any dry contact such as low temperature limit exceeded.
- Continuous signal strength display.
- NEMA-4 enclosure suitable for outdoor mounting.
- Service button triggers transmission that serves to provide notification of the arrival of service provider.
- Website shows history of alarms, heartbeats and messages.
- Daily heartbeat web message that provides transmitter operating status and notice of any pending alerts, compressor run time and compressor cycles.

Device Info Screen



SPECIFICATIONS

Input Voltage 85 - 240 VAC

Power Consumption 15 VA

Battery Backup 12 VDC Gell Cell

Operating Temperature
-40 to 140°F (-40 to 60°C)

Storage Temperature
-40 to 160°F (-40 to 70°C)

Enclosure

Type

NEMA-4 suitable for outdoor mounting

Dimensions

7 1/8"W x 9 5/8"H x 3 1/2"D
(18 x 24.5 x 8.9cm)

Material

UV Resistant ABS Gray

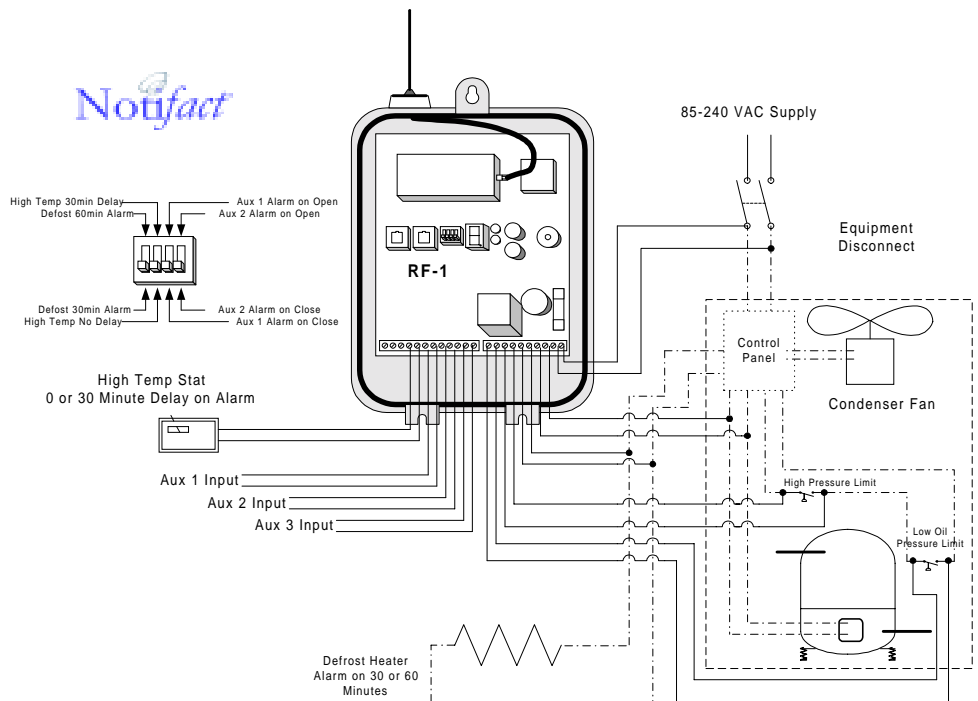
Knockouts 3 bottom, 3 rear
(1/2", 3/4" concentric)

Radio

Transmit 824.01 - 848.97MHz

Receive 869.01 - 893.97MHz

Typical Installation



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