Start-up & Operation

The VRF-1000C Cable Model will automatically begin operation when powered up. It should be initially powered after it is installed in the application and with material below the probe. When initially powered up, the VRF-1000C Cable Model will automatically begin a 3 second calibration operation. If the unit is powered on the bench prior to installation, or moved from one installation to another, recalibration is required. Momentarily press the recalibration pushbutton. The green calibration indication LED will go off, and after 3 seconds illuminate to indicate calibration is complete. The VRF-1000C Cable Model is shipped from the manufacturer with the automatic calibration/recalibration feature enabled. If only manual pushbutton calibration/recalibration is desired, set SW1 DIP switch position 6 to off.

Please see VRF180004 for complete installation guidelines.

Dimensional and electrical drawings of the VRF-1000C models are available in various formats from Bindicator's website; www.Bindicator.com

From the home page, click on the link Installation Manuals/VRF180004 to obtain the applicable drawing.

If access to the internet is not available, please contact Bindicator[®] Customer Care Department at 1-800-778-9242 for assistance in obtaining these drawings.



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VRF-1000C Series of Variable Radio Frequency Point Level Sensors Cable Electronics with Opti-Sense™

Quick-Start Guide

SAFETY INFORMATION

Before installing the VRF-1000C Cable model, please read these instructions and familiarize yourself with the requirements and functions. If any questions or problems arise during theinstallation, please contact Bindicator[®] Applications at 1-800-778-9242.

The VRF-1000C Cable model must only be installed and operated as described in this operating instruction. Please note that other action can cause damage for which Bindicator[®] does not take responsibility. If the model is not installed correctly or used in approved applications, dangers may arise such as product overflow.

Ensure that all personnel installing, wiring, and calibrating this device are suitably qualified.

Observe all local and national electrical codes for the wiring of this device.

IMPORTANT!

Either AC or DC power is to be connected to the power input depending on the model. Consult the nameplate of the unit. Models beginning with VRF1CA are AC powered units and accept any voltage between 85 VAC and 265 VAC. Models beginning with VRF1CD are DC powered units and accept any voltage between 9 VDC and 36 VDC.

IMPORTANT!

An electrical earth ground connection must be made to the housing input ground screw. See Figure 1 for location. This connection is needed for both electrical safety and proper operation of the unit. This is required for both AC and DC units.

External ground wire must be connected to tank wall or top of tank.

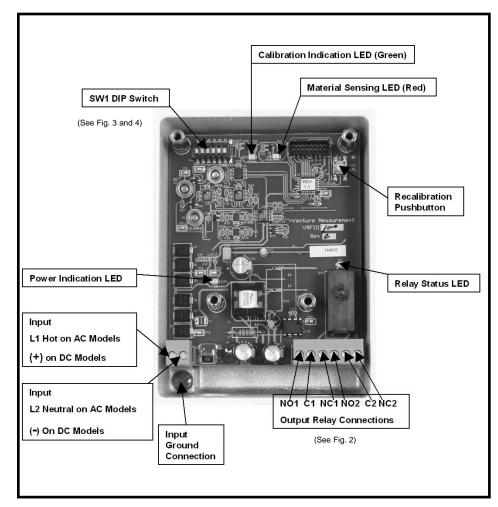


Figure 1. VRF-1000C Electronics

Failsafe Selection

High Level Failsafe Operation

- DIP Switch SW1 position 5 is on.
- If the electrical power fails, the relay turns off. This indicates material as if the tank were full.

Low Level Failsafe Operation

- DIP Switch SW1 position 5 is off.
- If the electrical power fails, the relay turns off. This indicates material as if the tank were empty.

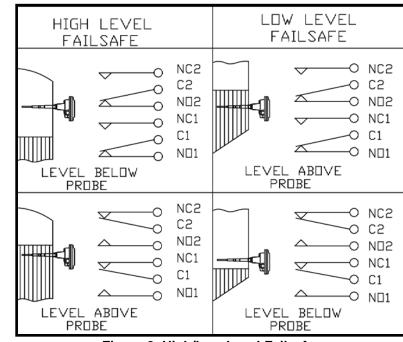


Figure 2. High/Low Level Failsafe

The output relay contacts are labeled in the un-powered alarm state. The relay is energized when the VRF-1000C is not alarmed. This status may be opposite that of other Bindicator[®] brand units. If the VRF-1000C is replacing an older Model RF8000 or RF9000 unit, connections will need to be opposite. If a connection was made to NC1 terminal of the RF8/9000, connect now to the NO1 terminal of the VRF-1000C. C1 and C2 connections would remain the same.

SW1 Position 1	SW1 Position 2	Sensitivity
Off	Off	1 pF, High
Off	On	2 pF
On	Off	5 pF, Medium
On	On	10 pf, Low

Figure 3. Sensitivity Settings

SW1 Position 3	SW1 Position 4	Time Delay
Off	Off	1 second
Off	On	4 seconds
On	Off	8 seconds
On	On	15 seconds

Figure 4. Time Delay Settings