

The Steelcraft Model DC-RVLM-2 Remote Monitor is a Underwriters' Laboratories of Canada listed device, designed to monitor the open or closed position of two separate SPST switches, the most common use being related to product level float switches.

The monitor is equipped with two Dry Contact terminals for connection to a Building Automated Control System. These terminals are labelled 1 DC & 2 DC. The terminals are Normally Open and close when the appropriate switch connected to either one of the alarm terminals, 1 and 2, closes.

See manufacturer's installation instructions for proper connection of tanks or piping to monitor connector terminals.

<h1>STEELCRAFT</h1> <p>Engineered Products Division</p>	DESCRIPTION: MONITOR DC-RVLM-2 w/MUTE, VAC, HI LEVEL		
	CUSTOMER:		
	PROJECT:		
	ITEM NO.: MNRM000011XX	DRN.: HK 21-JUN-13	SCALE: 1:1.5
	JOB NO.:	DWG. NO.: MNRM000011XX	



DC-RVLM-2 REMOTE LIQUID LEVEL MONITOR INSTALLATION INSTRUCTIONS

The DC-RVLM-2 remote monitor is an Underwriters' Laboratories of Canada (ULC)-listed device designed to monitor the open or closed position of two separate SPST switches, the most common use being related to product level float switches.

The monitor alarms when the monitored switch closes and is designed to automatically reset when the switch returns to the open position. The monitor incorporates a MUTE switch that silences the audio portion of the alarm; this function operates independently for each of the two switch alarm functions.

The monitor is equipped with two dry contact terminals for connection to a building's automation control system(s). These terminals are labelled 1 DC & 2 DC and are Normally Open; the terminals close when the switch connected to either one of the alarm terminals closes.

The monitor uses a 12-Volt DC power source and comes with a plug-in 120 VAC to 12 VDC adaptor. It is for use only in indoor locations that are classified as non-hazardous by the National Electrical Code of Canada.

Installation

1. Locate the DC-RVLM-2 monitor indoors with suitable access to a 120 VAC duplex receptacle. The DC-RVLM-2 is equipped for the attachment of PVC electrical conduit.
2. Remove the cover on the DC-RVLM-2 monitor and note that the two terminals for the SPST switches are identified by 1 & 2. The corresponding dry contact terminals are labelled 1 DC & 2 DC. Each set of terminals consists of two connectors for the attachment of two wires from each of the monitored switches.
3. Select the appropriate terminal and connect the two wires from each of the monitored switches. The monitor terminals are designed for the use of #18 stranded electrical wire.
4. After all electrical connections to the switches are complete, plug the 12 VDC male connector of the 120 VAC/12 VDC adaptor into the DC volt connector port located on the side of the monitor (See Wiring Diagram).
5. Plug the 120 VAC terminals of the 120 VAC / 12 VDC adaptor into a live 120 VAC duplex receptacle. The green power light on the monitor will come on. If the green light fails to come on, immediately disconnect the power source and check the adaptor to ensure that the DC pole is center positive.
6. The audible alarm and the appropriate light will come on and the dry contact terminals will close when the monitored switch is in the closed position. The MUTE button will mute the audible alarm while the visual portion of the alarm will remain illuminated. The float switch audible/visual alarm and dry contacts will reset when the specific switch returns to the open position. Dry contact terminals remain closed during mute cycle.

WARNING:

ALTHOUGH THE DC-RVLM-2 IS RATED AS A LOW-VOLTAGE ELECTRICAL DEVICE, IT INCLUDES THE ATTACHMENT OF OTHER DEVICES THAT DIRECTLY ACCESS HIGH-VOLTAGE ELECTRICAL CURRENTS. THESE CONNECTIONS REQUIRE THE USE OF A LICENSED ELECTRICIAN.

WARNING:

THE DC-RVLM-2 IS INTENDED TO BE INSTALLED BY PERSONS EXPERIENCED IN THE OPERATION OF LOW-VOLTAGE DEVICES. THE INSTRUCTIONS SUPPLIED, ALTHOUGH APPROPRIATE, DO NOT CONSTITUTE ANY ACCEPTANCE BY STEELCRAFT INC. FOR ANY LIABILITY FOR DAMAGES THAT MAY OCCUR THROUGH THE USE OF THESE INSTRUCTIONS.

IF THERE IS A CONFLICT BETWEEN THESE INSTRUCTIONS AND LOCAL ELECTRIC CODES, THE ELECTRICAL CODES SHALL ALWAYS TAKE PRECEDENCE.

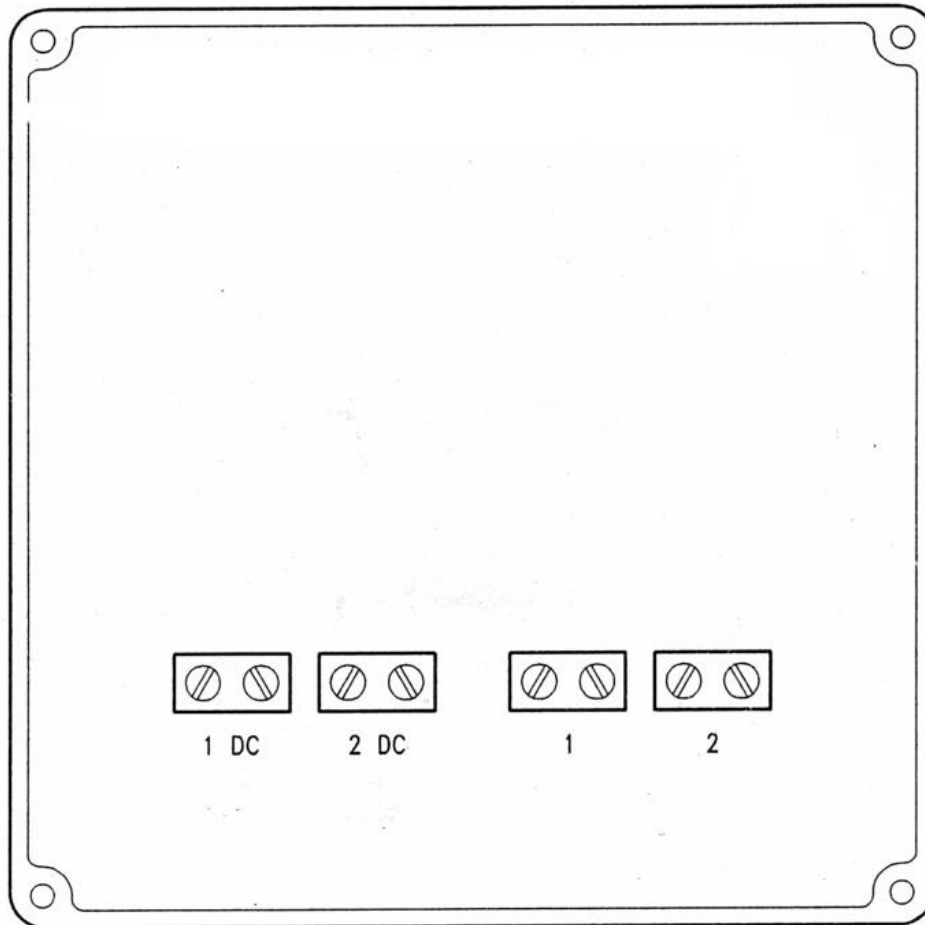


Figure 1: DC-RVLM-2 Internal Connections

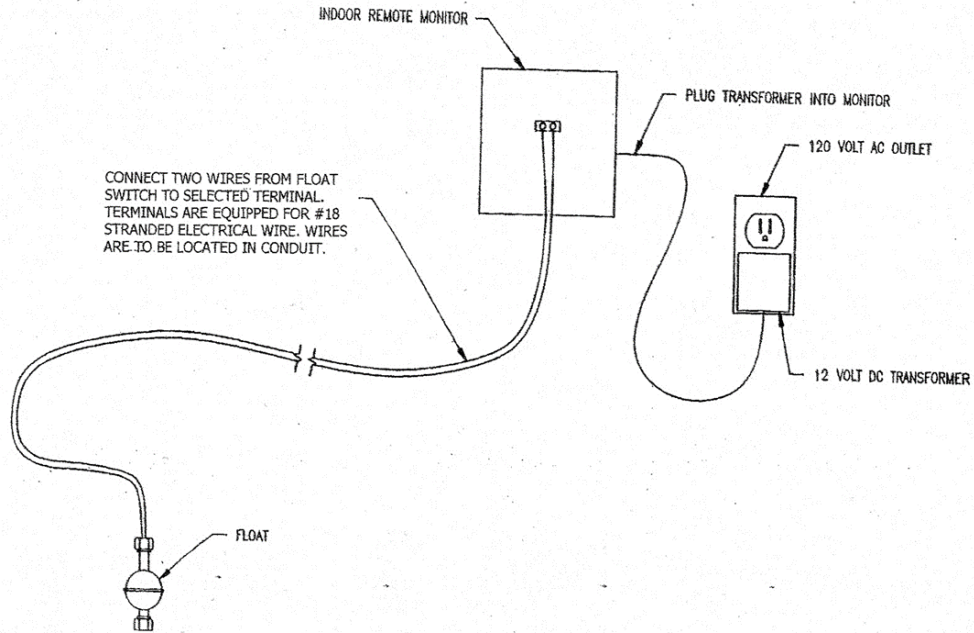


Figure 2: DC-RVLM-2 Float Switch Wiring Diagram

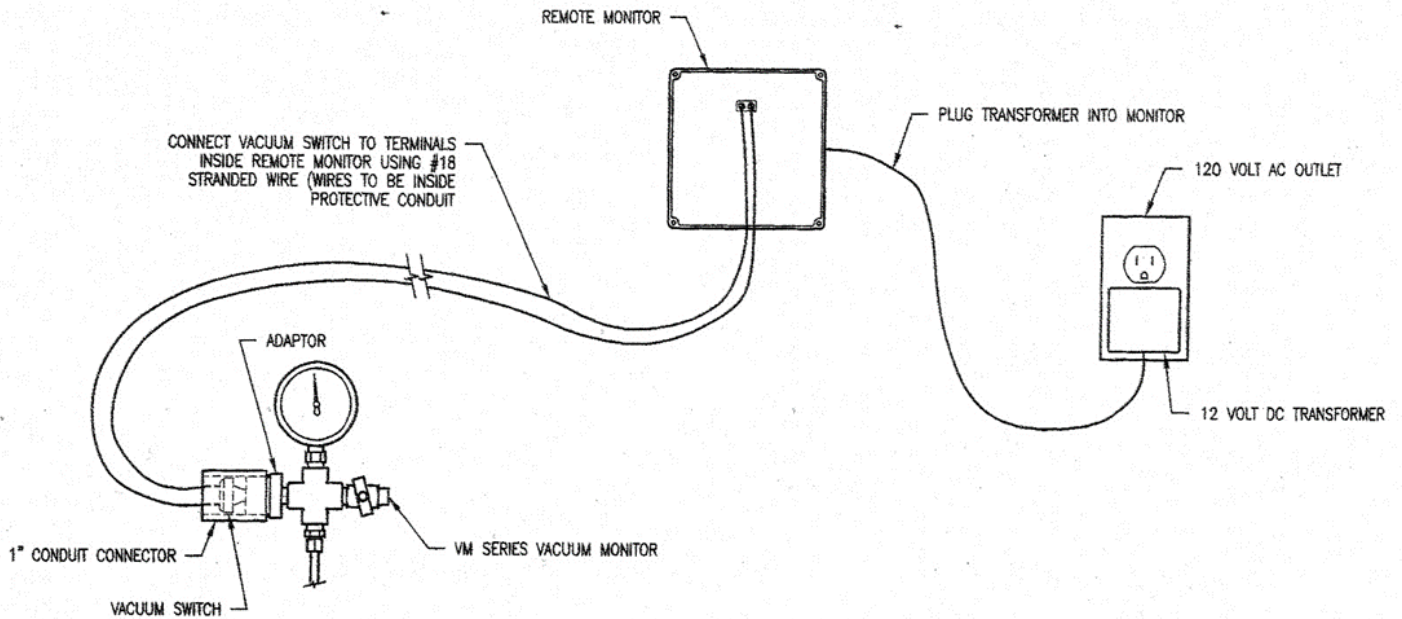


Figure 3: DC-RVLM-2 Vacuum Switch Wiring Diagram