

REDI CONTROLS, INC.

Installation, Operation & Maintenance Manual

Literature 1033-03

Remote Microprocessor Control Panel

for use with the

Redi-Purge™

High Efficiency Purge System

**MODELS PRG-11/123-C3 & PRG-113-C3
AND
MODELS 007-11-C3 & 007-123-C3**

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Remote Control Panel

for use with

Models PRG-11/123-C3 & PRG-113-C3

MODELS 007-11-C3 & 007-123-C3

High Efficiency Purge Systems

Introduction

The Redi Controls “Remote Microprocessor Control Panel” allows remote operation of models PRG-11/123-C3 and PRG-113-C3 & MODELS 007-11-C3 & 007-123-C3 Redi Controls high efficiency purge units. The remote panel may be located up to a maximum of 200 hundred feet from the controlled purge unit via an on-board RS-232-C communications interface and three-wire cable. The Remote Panel allows remote control of purge unit operation, viewing of historical logs and setting of operating parameters.

Once the remote panel is installed purge unit operation may be accomplished either via the remote panel or the local unit panel, however, only the remote panel display is active. When desired, control and display of purge operation can be reverted back to the local panel by switching DIP switch (SW1) switch 1 located on the purge unit’s microprocessor board to the OFF position, disabling the remote panel.

Installation kit includes

- (1) One Remote Microprocessor Control Panel
- (1) One three-wire RS-232 cable (length to order)
- (1) One Installation and Operation manual

Installation

Installation of the Remote Control Panel assumes that either a Model PRG-11/123-C3 or Model PRG-113-C3 or MODELS 007-11-C3 & 007-123-C3 Redi Controls High Efficiency Purge unit has already been installed and is operational.

Remote Panel

1. Mount the Remote Microprocessor Control Panel at the desired location up to a maximum of 200 feet from the controlled purge unit.
2. Connect 115 VAC power source to Terminals 1 and 6 on Terminal Strip TB1 in the Remote Panel.
3. Connect grounding wire to the ground lug in the control panel (see Figure 1)
4. **Route one end of the 3-wire RS-232 cable into the remote panel** through one of the access holes with a black nylon grommet located on the back of panel. Connect the three wires to the RS-232 (J7) connector at the top right of microprocessor board (see figure 1 Remote Panel). Connect the three wires as follows:

Connect BLACK wire to terminal #1

Connect GREEN wire to terminal #2

Connect RED wire to terminal #3. NOTE: RED wire MUST be connected to #3.

Purge Unit Panel

5. Route opposite end of the **RS-232 cable into the Purge Unit Control Panel** through one of the access holes with a black grommet located on the back of panel. Connect the three wires to the RS-232 (J7) connector at the top right of the microprocessor board (see figure 1 Purge Unit Pane). Connect the three wires as follows:

Connect RED wire to terminal #1 NOTE: RED wire MUST be connected to #1

Connect GREEN wire to terminal #2

Connect Black wire to terminal #3

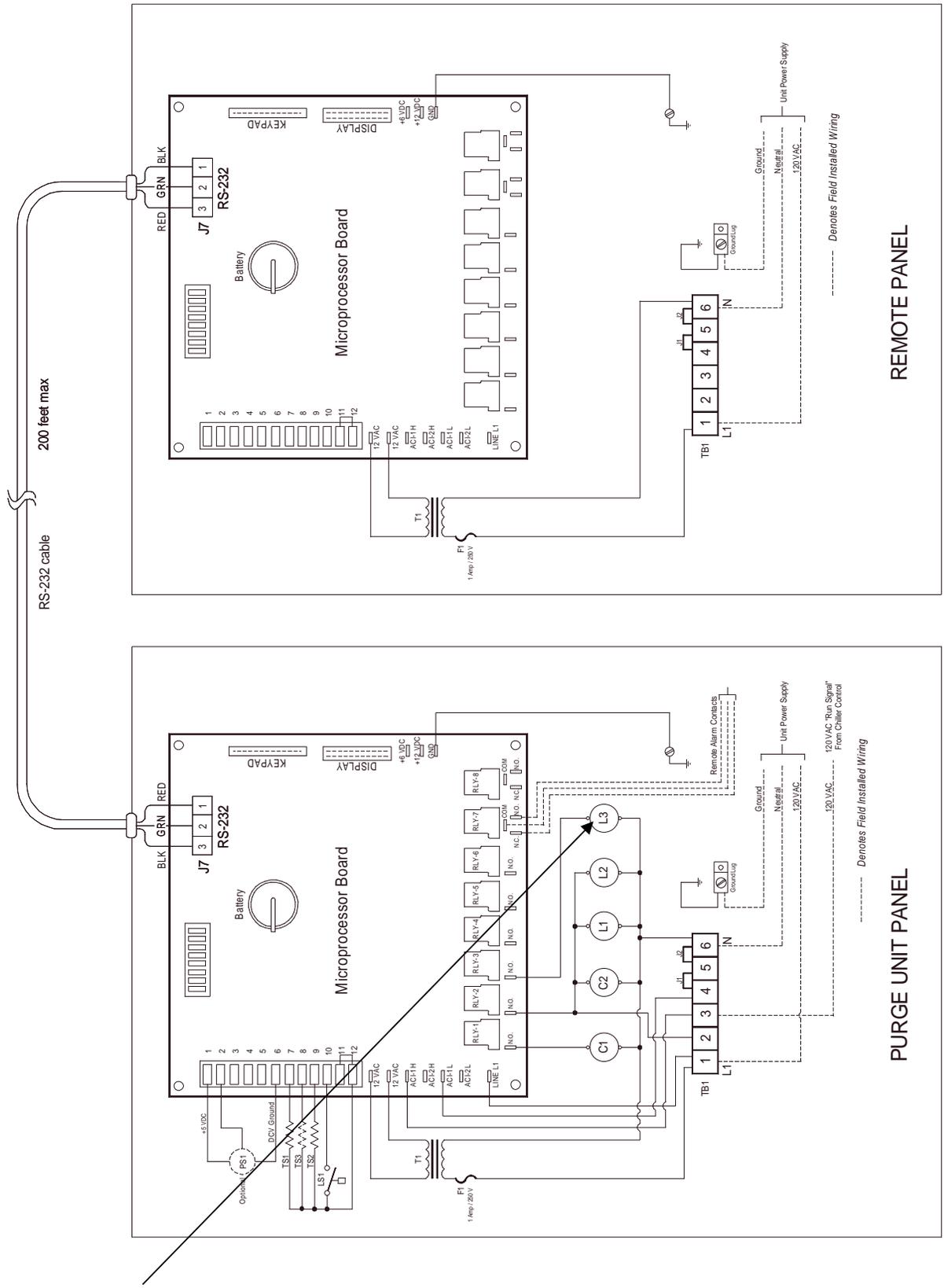
Set-up and Power-up

Purge Unit Panel...

1. To place remote panel in control of purge unit you must set DIP switch (SW1) dip switch 1 to the ON position **in the PURGE UNIT PANEL**. The PURGE UNIT control panel will display "under remote control". The purge unit display can be viewed and active only when the dip switch 1 is placed in the OFF position.

Remote Panel...

1. Apply power and verify for proper voltage at terminals TB1-1 and TB1-6 (see figure 1). The voltage should be between 103 and 127 volts.



Note: L3 does not exist on models 007-11-C3 and 007-123-C3

Figure 1.

Operation

Operation of the purge unit via the Remote Control Panel is identical to operation from the local panel. For unit operating instructions refer to the appropriate model Purge Unit IOM Manual.

Setting DIP (SW1) switch 1 on the purge unit microprocessor board to the ON position enables remote operation. The purge unit can then be operated both locally and remotely. However, only the remote panel display will be active.

To make the local panel display active set DIP (SW1) switch 1 to the OFF position. However, when switch 1 is in the OFF position the remote panel will be disabled.

Trouble Shooting

The following Troubleshooting Chart comprises a "Symptom" column describing what the unit is doing; a "Cause" column identifying possible sources of problem; and a "Solution" column describing likely corrective action.

Troubleshooting Chart

Symptom	Cause	Solution
All circuit board LED's off.	No Power to board F1 Fuse blown	Restore power Replace Fuse
Fuse is good, Verify 12 volts AC @ the two spade terminals labeled 12 VAC and 12 VAC (green wires) on the left side of the circuit board.	If there is no voltage, transformer T1 is defective	Replace Transformer
There is 12 VAC, but the circuit board does not function. Verify that there is +5 volts DC between terminals labeled +5V and GND. Also Verify that there is +12 volts DC between terminals labeled +12V and GND on the circuit board.	If either of these voltages are not present, the Circuit Board is defective	Replace Circuit Board
Display Reads: Communication Error Remote panel not controlling purge unit	One or both ends of RS-232 Cable not connected One or both ends of RS-232 Cable improperly orientated in RS-232 Port DIP (SW1) switch 1 set in OFF position on the purge unit microprocessor board.	Check connections and correct Check connections for proper orientation and correct Set switch to ON position

REDI CONTROLS, INC.

Equipment Warranty

Subject to the terms below, REDI CONTROLS will, within one year after date of purchase, repair any REDI CONTROLS' product being used by the original purchaser, which is defective due to faulty materials or workmanship. REDI CONTROLS has the right to repair or replace a defective part or replace the entire product.

To file a Warranty claim on any system or component, return the defective unit to the address below, or other location as REDI CONTROLS directs, freight prepaid.

This Warranty does not apply to or cover:

Damages beyond REDI CONTROLS' control.

Malfunctions that result from failure to properly install, operate or maintain a product in accordance with instructions provided by REDI CONTROLS.

Failures of equipment due to abuse, accident or negligence.

Damages from, or part failures due to equipment not being installed per REDI CONTROLS' instructions, per applicable codes or ordinances, or in accordance with good trade practices.

Labor or other charges incurred in removing or reinstalling any REDI CONTROLS product or part.

Damages resulting from use of a REDI CONTROLS product for any purpose other than for which it was designed and manufactured.

Any implied warranty of merchantability or fitness for any particular purpose, occurring after the Warranty Period.

Loss of use, loss of time, inconvenience, rental for substitute products, loss of business, loss of income, or any other consequential damages resulting from use or failure of any REDI CONTROLS product.

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