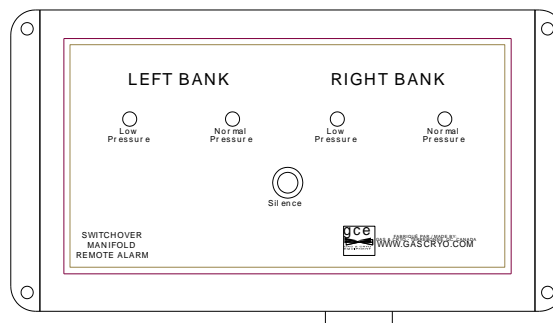




Installation and Operating Instructions For **REMOTE ALARM BOXES** FOR ONE (1) OR TWO (2) INPUTS

THIS BOOKLET CONTAINS PROPRIETARY INFORMATION OF GAS & CRYO EQUIPMENT® AND IS PROVIDED TO THE PURCHASER SOLELY FOR USE IN CONJUNCTION WITH REMOTE ALARM BOXES.



IMPORTANT

Do not permit untrained persons to install, operate, or maintain these remote alarms. Do not attempt to install or operate these remote alarms until you have read and fully understood these instructions. If you do not fully understand these instructions, contact Gas & Cryo Equipment®.

Be sure this information reaches the operator. Your supplier has extra copies.

1- MANUFACTURER STATEMENT

The information contained in this instruction booklet has been compiled by Gas & Cryo Equipment (GCE), from what it believes are authoritative sources and is offered solely as a convenience to its customers. While GCE believes that this information is accurate and factual as of the date printed, the information including design specifications is subject to change without prior notice.

2- INTRODUCTION

GCE remote alarms are used to advise an operator that one or two pressure sources (equipments) are depleted. The alarm signal is visual and audible.

3- DESCRIPTION

The remote alarm indicates the pressure status of one (RA1) or two (RA2) inputs (green LED for normal pressure and red LED for low pressure). The red LEDs along with a built-in buzzer indicate when the pressure is low. The silence button kills the buzzer but the red LED remains on. The green LEDs indicate normal pressure.

HOW TO ORDER - PART NUMBER MATRIX

RA	
Basic Series	Inputs
	☑ 1
	☑ 2

NOTE: A 120VAC input / 9VDC output power supply is included with the RA1 and RA2 model.

5- SPECIFICATIONS

Description (RA1 & RA2)

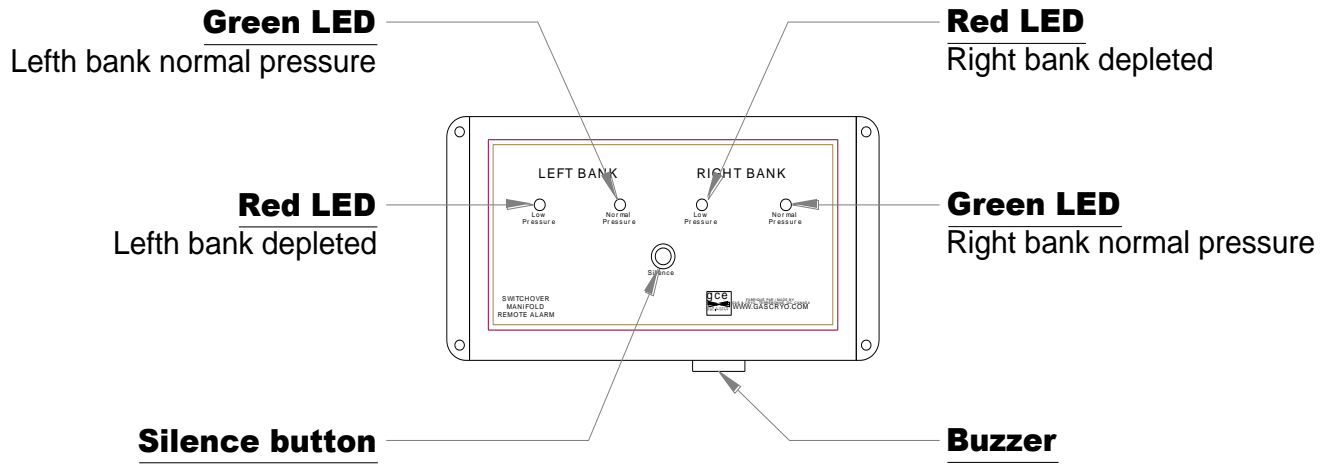
Input voltage	9VDC
Current consumption	300 mA
Input signal	Dry contact from pressure switches included on equipment such as switchover and mixers
Output	2 x SPDT relay (Normally Open)
Output rating	60 Volts at 3 Amps Max. OR 120 Volts at 1.5 Amps (180 Watts)
Operating temperature	32°C to 122°F
Dimensions	8.5" x 4.25" x 2.375"

6- MATERIALS OF CONSTRUCTION

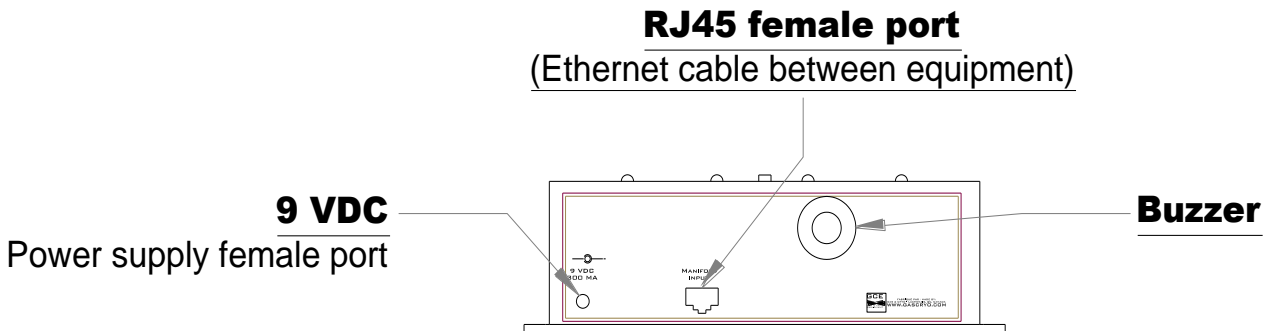
Enclosure

Enclosure	ABS plastic
Protection degree	IP54

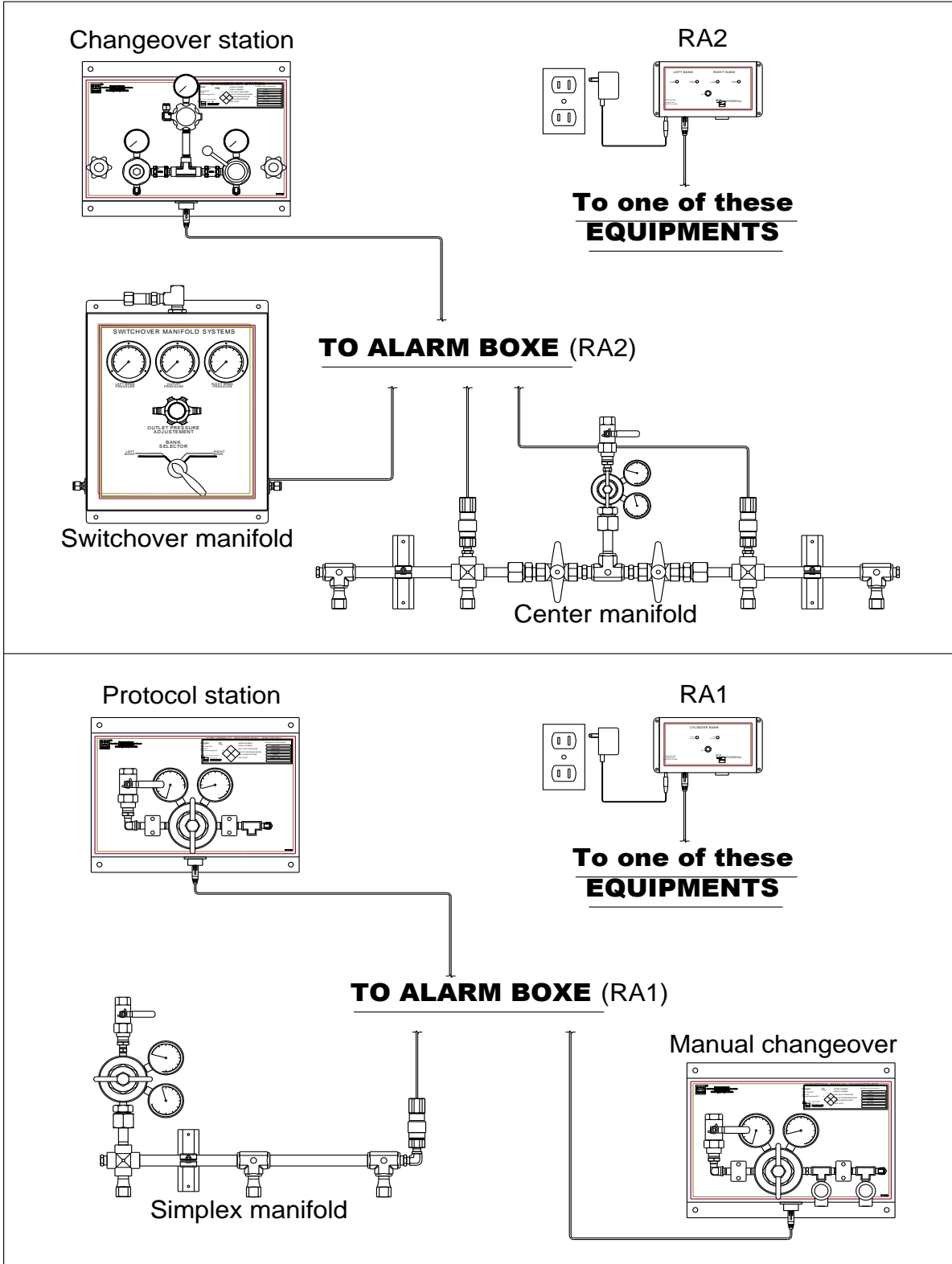
7- FRONT VIEW



8- BOTTOM VIEW

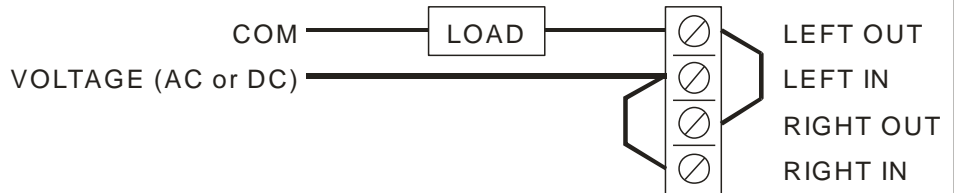
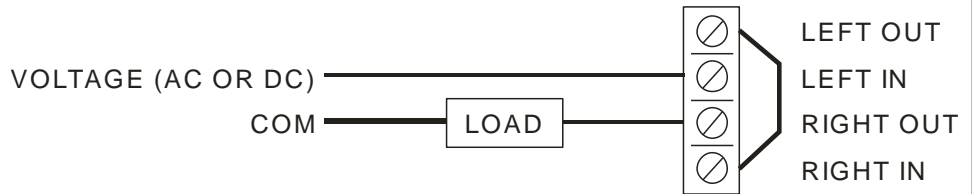
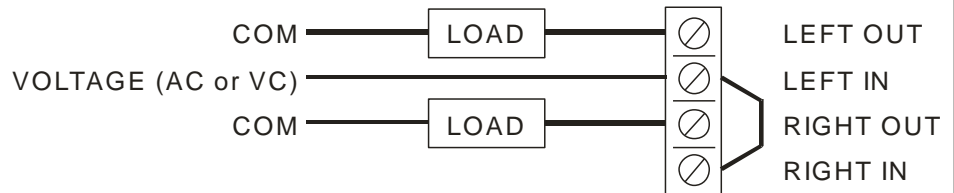
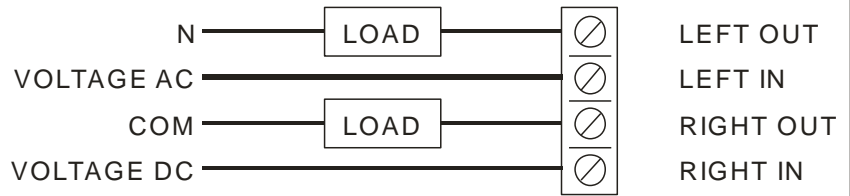


11- CONNECTING EQUIPMENT

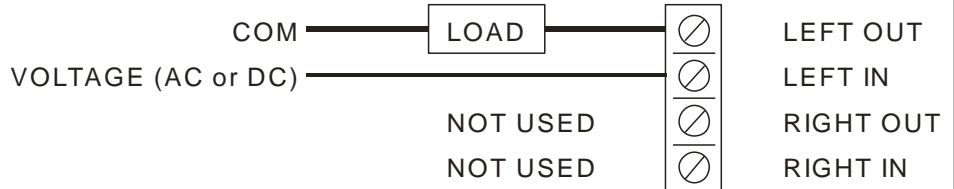


12- CONNECTING OUTPUT RELAYS

WITH TWO INPUTS TO THE REMOTE ALARM BOX



WITH ONE INPUT TO THE REMOTE ALARM BOX



13- OPERATION

1. Plug the cable with RJ-45 plug coming from the equipment (switchovers, protocols,...) to the MANIFOLD INPUT inlet.
2. Power up the unit by plugging the 9VDC cable to the power supply inlet port. The power supply must be connected to a 110 VAC power outlet.
3. When first powered up, LEDs will blink on and off in sequence for 5 seconds.
4. If the pressure for each input is normal, the two green LEDs will be lit.
5. If a low pressure signal is detected, the LEDs of that side will switch from green to red and the buzzer will be actuated.
6. The buzzer can be silenced by pressing the SILENCE pushbutton. Even if the buzzer is silenced the red LED remains on as long as the bank pressure is not back to normal pressure.

14- REPAIRS

If the remote alarm malfunctions, take it out to service. Repairs should be made by Gas & Cryo Equipment who have the special tools, test equipment and trained personnel required to make a repair. Tampering with remote alarms voids the warranty. Contact Gas & Cryo Equipment to arrange for repair.

Repairs to remote alarms done after the initial warranty period has expired are chargeable to the customer. Upon receipt at the factory, the switchover manifolds will be inspected and you will be contacted with a repair cost estimate. No item will be repaired until approval is received. There will be an evaluation charge assessed for equipment not repaired. All repairs should be arranged through your GCE supplier.

15- TROUBLESHOOTING

SYMPTOM	PROBABLE CAUSE	REMEDY OR CHECK
No LEDs are lit	Loss of power	Check the 9VDC power supply.

16- WARRANTY

Equipment sold by Gas & Cryo Equipment (GCE) is warranted to be free from defects in materials and workmanship for a period of one (1) year from the date of manufacture. GCE's liability is limited to the repair of, refund of purchase price paid for, or replacement in kind of, at GCE's sole option, any items proved defective, provided the allegedly defective equipment is returned to GCE prepaid. The warranties expressed above are in lieu of and exclusive of all other warranties.

There are no other warranties, expressed or implied, except as stated herein. There are no implied warranties of merchantability or fitness for a particular purpose, which are specifically disclaimed. GCE's liability for breach of warranty as herein stated is the exclusive remedy, and in no event shall GCE be liable or responsible for incidental or consequential damages, even if the possibility of such incidental or consequential damages has been known to GCE.

No person is authorized to make or assume for GCE / Azoxco any liabilities or obligations in connection whatsoever beyond those herein expressed.

17- DESIGN CHANGES

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MONTREAL HEAD OFFICE

1180 rue de l'Express
Terrebonne (Qc) J6W 6K9

 (450) 471-2727
1-877-GAS-CRYO

 (450) 471-2717

