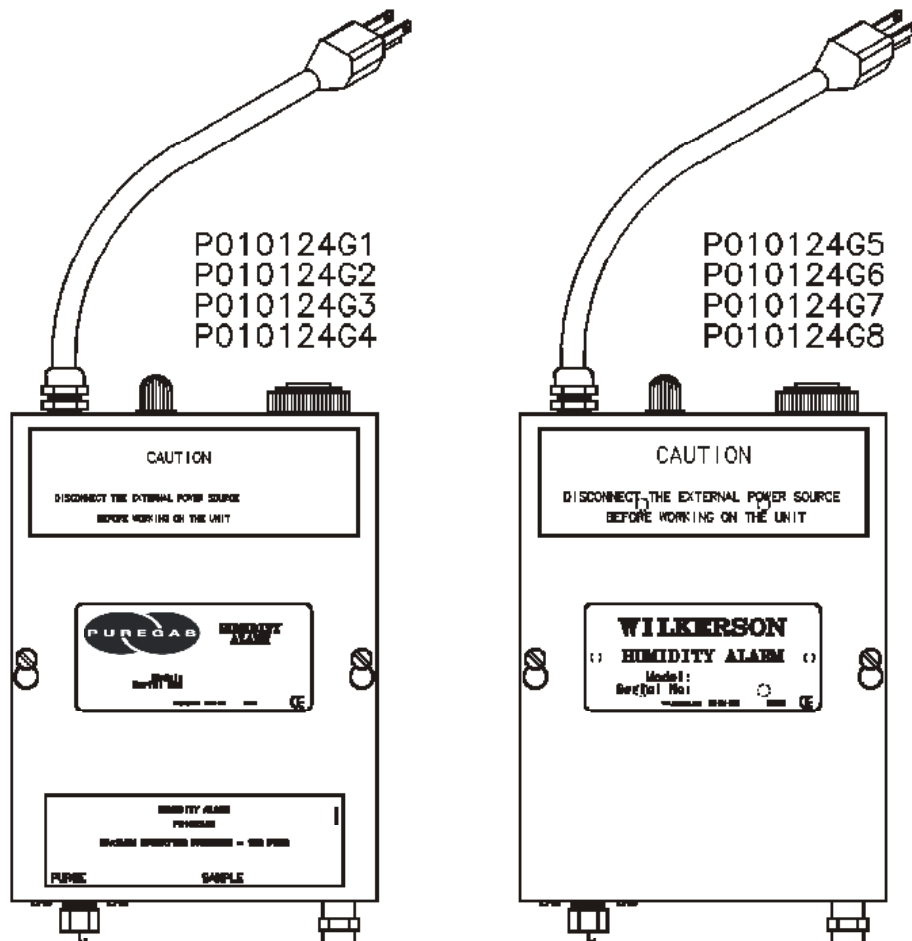


Operating Instructions And Parts List For Puregas Model

P010124G1 thru G8 Humidity Alarm



226A Commerce St. • Broomfield, CO 80020
800-521-5351 • (303) 427-3700 • Fax (303) 657-2233

PREFACE

This instruction manual is for the benefit of our customers. It is intended to provide the basic information that will enable our customers to install, maintain and service the PUREGAS Humidity Alarm. Careful observation of the instructions and maintenance procedures will ensure maximum life and efficiency from the unit.

This manual should be read thoroughly before installing operating, or servicing the Humidity Alarm to familiarize the technician with the unit and the proper operating procedures. This will minimize the possibility of damage to the unit due to improper installation, operation or handling or disassembly.

Please direct all inquiries to:
PUREGAS Service Department
226A Commerce St.
Broomfield, CO 80020
1-800-521-5351 or (303) 427-3700

KEEP THIS MANUAL FOR FUTURE REFERENCE.

PUREGAS[®] PRODUCT WARRANTY

All PUREGAS products carry a one year warranty against defective workmanship and material. This period starts at the date of shipment. Puregas products are designed in a manner which permits field repair by the user and replacement parts will be shipped enabling the user to make the necessary field repairs and return the defective parts.

However, the warranty also includes the offering of an immediate replacement with an equalvent product for any unit *for which field repairs are not authorized by Puregas*. Only in unusual cases will it be necessary to ship a replacement unit. On receipt of the replacement product, the user will return the defective unit, freight prepaid, in the same shipping container.

No claims for labor in replacing defective parts or for consequential damages will be allowed. Replacement parts (or if applicable, a replacement product) will be invoiced in the regular way, with invoices subject to adjustment, after the parts (or products) claimed defective are examined in our factory. In addition, no material or parts will be accepted at our factory for in-warranty repairs or credit without previous authorization from Puregas.

Responsibility for damages incurred in transit will be borne by the user and the user in turn should file any damage claim against the carrier.

This warranty shall not apply to any product which shall have been repaired or altered in any way by anyone other than Puregas, or its authorized repair agent, so as to affect, in our judgment, its proper functioning or reliability, neither will it apply to any product which has been subjected to misuse, negligence or accident.

(Performance Disclaimer)

Quoted system components have been suggested and sized by Puregas based upon the information supplied by the customer. Puregas assumes no responsibility for performance of system components in the event this information is incorrect or incomplete. As Puregas has no control of customer's installation and selection of other system components which might affect performance, Puregas limits its responsibility for the performance of the components to the terms of the warranty and/or to providing further technical assistance where it is within our capability.

Introduction

The basic three components for the alarm system to operate are; the circuit board, humidity sensing element, and humidity cable.

Circuit Board

The circuit board is designed to change the signal input from the humidity sensor to a signal for the alarm output terminal. When moisture levels exceed the acceptable limit, a relay activates, providing a dry contact closure and opening. The alarm set point is determined by the type of humidity element installed in the unit.

Humidity Sensing Element

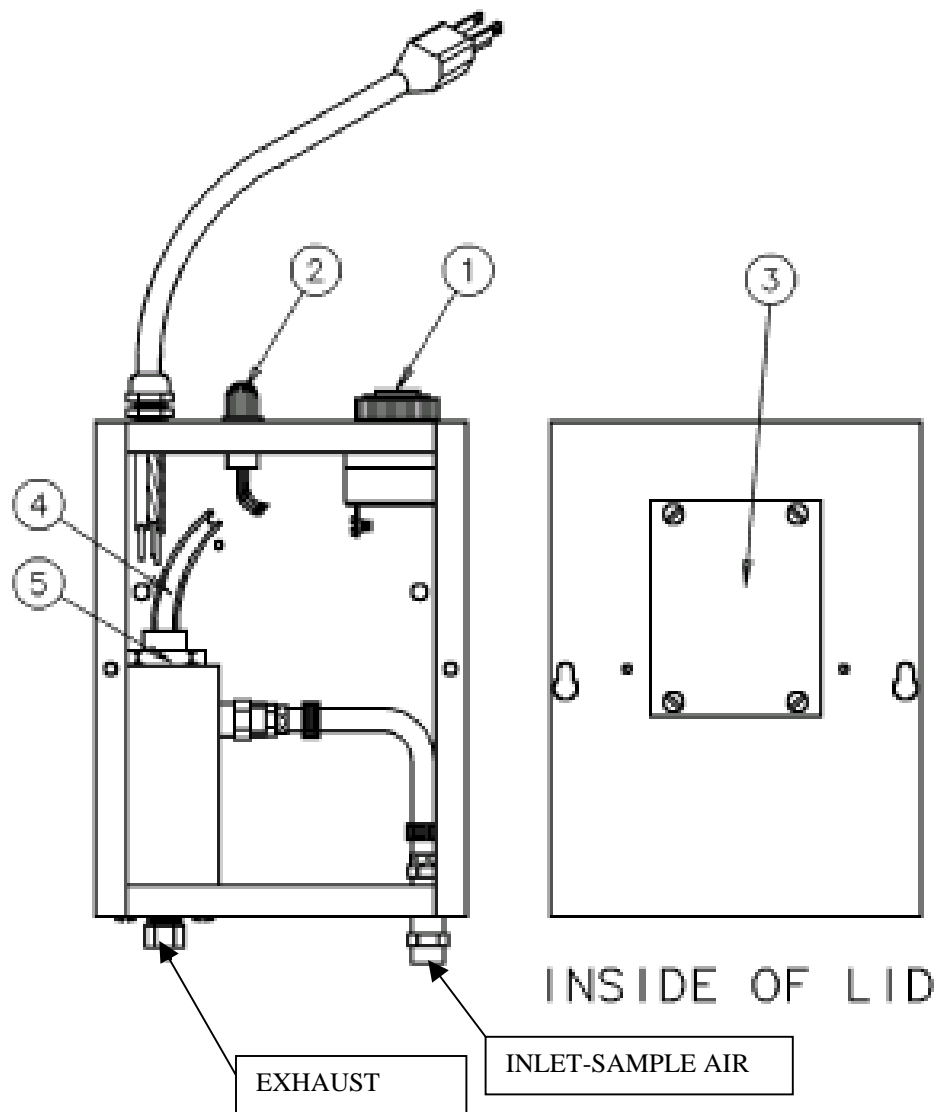
Each humidity sensing element represents a different level of relative humidity. The sensor is made of a bifilar of palladium wire coated with a hygroscopic film which changes in electrical capacitance proportionally to changes in humidity. Puregas offers a range of sensors that measure relative humidity levels. The sensor has an aluminum housing which protects the sensitive salt coated wire. It is important not to soil the sensor with contaminants as this will render the sensor inoperative. To eliminate the sensor from being soiled, it is recommended that filtration be provided before the humidity alarm unit. Do not, at any time, take a resistance reading across the sensor, this will align the salt crystals on the wire and make the sensor inoperative. This is the most important part of the unit, and should be replaced on a yearly schedule.

Humidity Cable

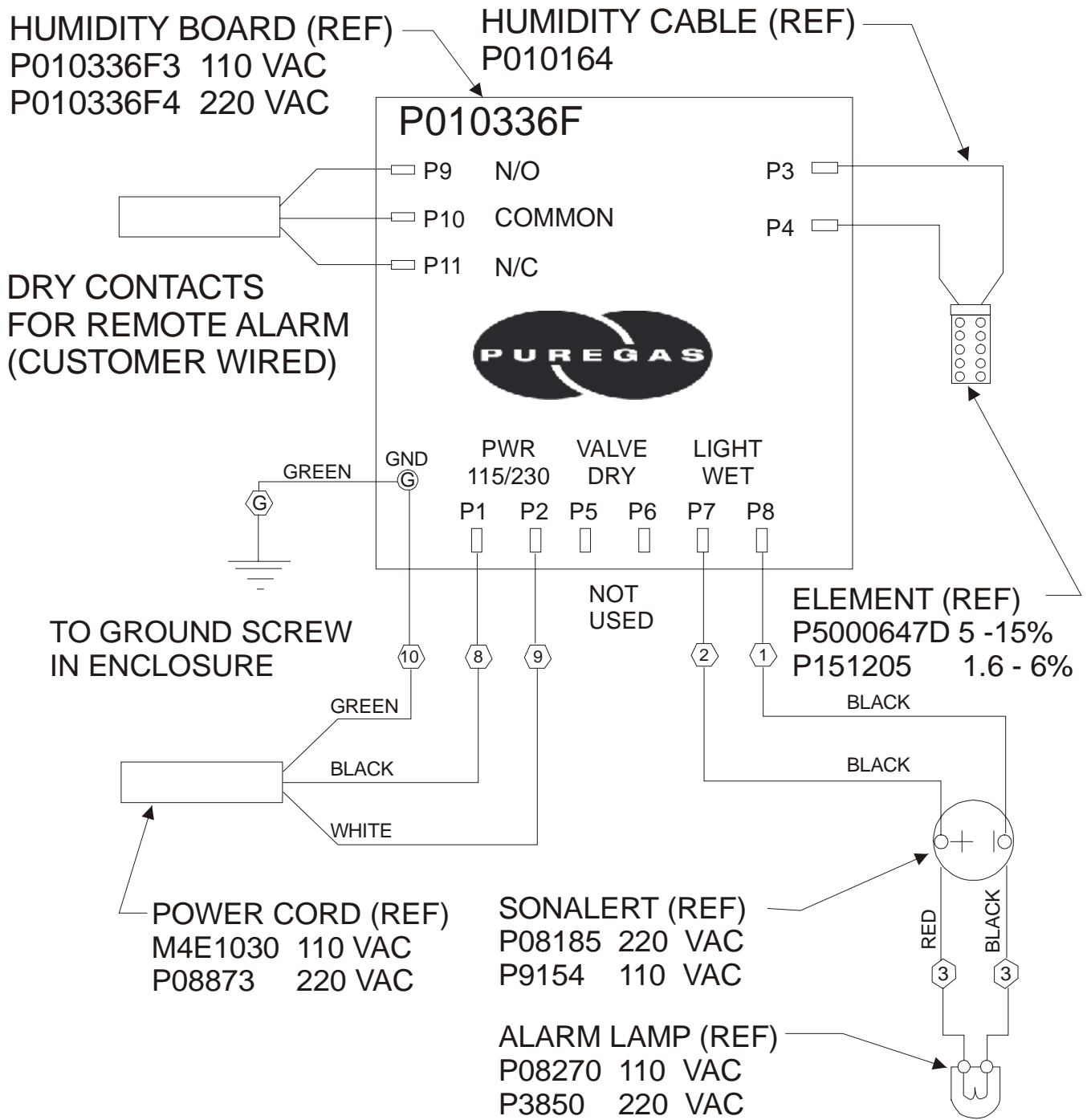
This cable allows the reading from the sensor to reach the humidity circuit board. If this cable is stretched or cut, the humidity level signal will not reach the circuit board. If this happens, a humidity alarm will not register on the unit.

Replacement Parts List

QUANTITY								PART NUMBER	DESCRIPTION	
1	1			1	1			P151205	Element - 1.6% to 6 %, White	
		1	1			1	1	P5000647D	Element - 5.0% to 15 %, Brown	5
1	1	1	1	1	1	1	1	P010164	Humidity Cable	4
1		1		1		1		P010336F4	Humidity Board - 220 VAC	
	1		1		1		1	P010336F3	Humidity Board - 110 VAC	3
1		1		1		1		P3450	Alarm Lamp - 220 VAC	
	1		1		1		1	P08270	Alarm Lamp - 110 VAC	2
1		1		1		1		P08185	Alarm - 220 VAC	
	1		1		1		1	P9154	Alarm - 110 VAC	1
X								P010124G8	Humidity Alarm - Wilkerson, 1.6% to 6.0%, 220 VAC	
	X							P010124G7	Humidity Alarm - Wilkerson, 1.6% to 6.0%, 110 VAC	
		X						P010124G6	Humidity Alarm - Wilkerson, 5.0% to 15%, 220 VAC	
			X					P010124G5	Humidity Alarm - Wilkerson, 5.0% to 15%, 110 VAC	
				X				P010124G4	Humidity Alarm - Puregas, 1.6% to 6.0%, 220 VAC	
					X			P010124G3	Humidity Alarm - Puregas, 1.6% to 6.0%, 110 VAC	
						X		P010124G2	Humidity Alarm - Puregas, 5.0% to 15 %, 220 VAC	
							X	P010124G1	Humidity Alarm - Puregas, 5.0% to 15 %, 110 VAC	



SEE SHEET 4 FOR PARTS LIST



WIRING SCHEMATIC