



PDRM₂

Portable Leak Detector

Quick Start Guide

This document is a quick start guide. Please also refer to the user manual (supplied on the CD) for additional information. The content of this manual is the copyright of PARASENSE and must not be copied or reproduced without their written permission.



HAZARD OF ELECTRIC SHOCK

- Read and understand the user manual before performing any procedure with this equipment. The user manual can be found on the CD supplied with the PDRM2 monitor
- There ARE NOT user serviceable parts inside PDRM2
- DO NOT open the PDRM2 unless completely disconnected from mains supply. PDRM2 should be installed, operated, serviced, and maintained only by qualified personnel.

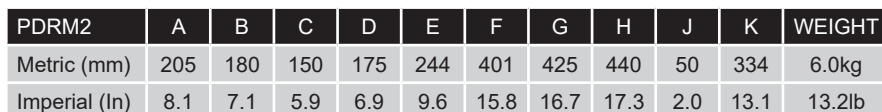
Failure to follow these instructions will result in death or serious injury

Doc Ref. QSPDRM2 Rev4 20th March 2020

Revision	Details	Checked
3-1: 29th Nov '17	Power socket changed. On/off switch removed. JW 29th Nov 2017	JB
3-2: 6th Apr '18	Branding updated.	JB
Rev4	Address change	MC

Installation Guide

Although the PDRM2 leak detector is designed as a mobile unit which may be relocated to a particular area of monitoring as and when required, the unit may also operate as a stationary unit. In this case the PDRM2 should be fixed onto a solid vertical surface by means of the four wall mounting brackets. The unit should be installed in a position where the monitor's LCD can be easily accessed. Space should be left around the monitor to allow the opening of the monitor door and fitting of Freeway, power and communications cables.



Electrical Requirements



- Do not operate or install any equipment that appears damaged.
- Check that the mains voltage and available power are compatible with the supply range of the equipment.
- Ensure an external RCD is used at all times during operation of the PDRM2

Failure to follow these instructions can result in death, serious injury, or equipment damage.

Power Connector

GRN/YEL

N

L

FUSE 5A

BLUE

BROWN

GRN/YEL

PSU: 24VDC

24V

0V

GRN / YEL

WHITE 24V

BLACK 0V

1 2 +24V

3 4 GND

NOTE:
Automatic disconnection of the supply shall be provided by means of an RCD

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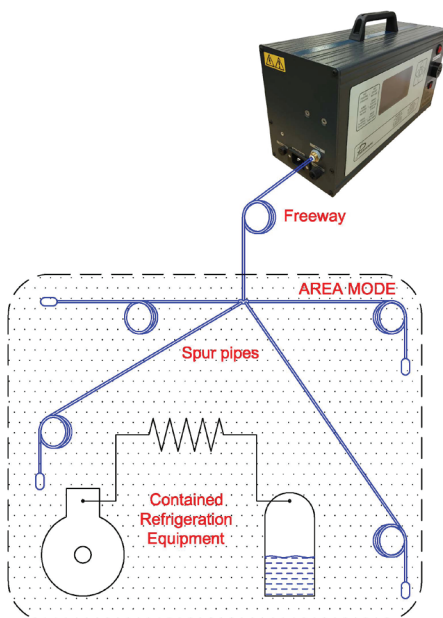
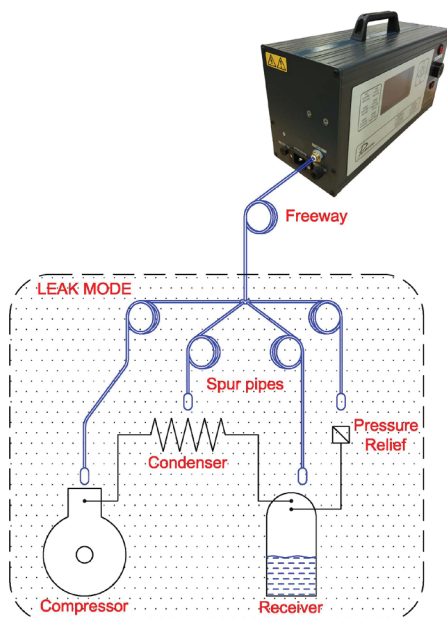
Sampling Pipework Installation Guidelines

Installation - Do

- Maximum of one Spur Kit per SAMM.
- Maximum of 4 way split.
- Spur Kit Freeway pipe is always to be of equal length. No Exceptions.
- Ensure that the Freeway is pushed right into the connectors on the SAMM and Spur Kit branch connectors.
- Support and clip all Freeway and Spur Kit branch connectors.
- Ensure that the Spur Kit Freeway filters always point downwards.
- Attach identity markers to both ends of the Freeway, including A (area) or L (leak) prefix.
- Use continuous lengths of Freeway (DO NOT JOINT).
- Sample points from a single SAMM must all be in the same room.
- Leak Mode sample points to be located as close as possible to the potential leakage point.
- Area Mode sample points to be located in general airflow of space at heights of between 1.5m/5ft and 2.4m/8ft, preferably away from potential leakage points.
- Cut the Freeway straight using the correct cutter (supplied by Parasense).
- Make sure that all cables and freeway are secured so not to create a trip hazard.

Installation - Do Not

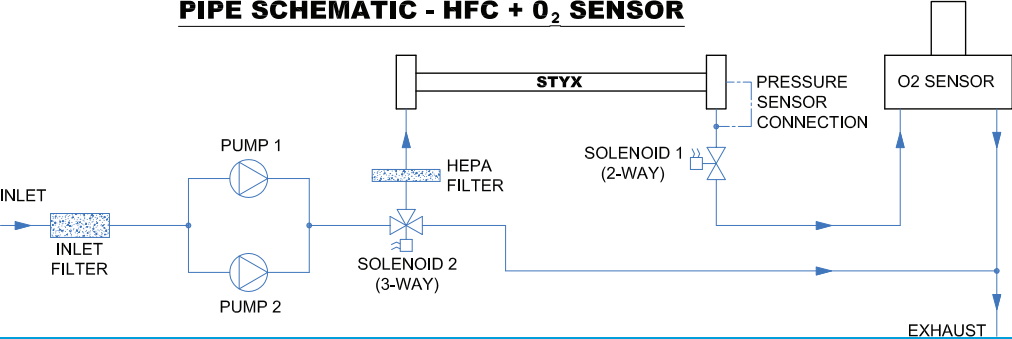
- Exceed 150m/500ft of Freeway (including all spur Freeway; E.g. for an installation with 100m/330ft of Freeway + 4-way 5m/16ft spur kit, the length would be 120m/394ft).
- Flatten or kink the Freeway.
- Bend the Freeway at a radius of less than 150mm/6".
- Run the Freeway from a warm place through a very cold space.
- Expose the Freeway or Spur Kit to temperatures in excess of 60°C/140°F, or less than -30°C/-22°F.
- Let the Spur Kit filters ever be immersed in water or any other liquids.
- Mix Spur Kit Freeway of different lengths on the same SAMM.
- Run Freeway or cabling in areas where they may be stood on or where they may restrict access to other equipment.



Typical installation incorporating spur kit

PDRM2 Pneumatic Diagram

PIPE SCHEMATIC - HFC + O₂ SENSOR



Factory Default Configuration Settings

Monitors are supplied programmed with Default Configuration Data. Modification can only be carried out via the Management menu of the door-mounted display.

Network settings		SAMM Settings:	
IP Address:	192.168.0.50	HFC Alert Level	50ppm
Netmask:	255.255.255.0	HFC Alarm	300ppm
Server:	192.168.0.1	HFC Critical	850ppm
Gateway:	192.168.0.1	O2 Alert Level	19.5%
Beacon Sounder Settings:		O2 Alarm	16%
		O2 Critical	14%
		Pipe Length	100ft
		Refrigerant	R134A
Source		Daylight Savings:	
HFC Type		DST	Enabled
O2 Type		DST Begins	2nd Sunday in March
Environmental Conditions:		DST Ends	1st Sunday in November
		General Settings:	
		Units	Imperial
SAMM Name/State:		Sample Interval	5 Minutes
SAMM 1	Leak Mode		

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