

User Manual

Vibrating Pager Unit

(This is a draft manual supplied for content evaluation only)

Crowcon Detection Instruments Limited
2 Blacklands Way
Abingdon Business Park
Abingdon
Oxfordshire
OX14 1DY
United Kingdom

Contents

Contents	Page 1
Introduction	Page 2
- Product Overview	Page 2
- Preparation for Use	Page 2
- Use of the Vibrating Pager Unit	Page 2
Operation	Page 2
- Warning	Page 2
- Checking the Vibrating Pager Unit Function	Page 2
- Routine Maintenance	Page 2
- Replacement of Batteries	Page 2
- To Change the Batteries	Page 3
FCC Notice	Page 3
Specifications	Page 3

Introduction

Product Overview

The Vibrating Pager Unit is designed to detect the presence of an alarm signal from a suitably configured portable gas detector and to then initiate a vibration that persists until the portable gas detector exits the alarm condition.

Product Description

The Vibrating Pager Unit comprises a self-contained electronic circuit, powered by battery, housed inside a purpose built tough plastic container. It is certified to CENELEC and UL intrinsically safe standards, is ingress protected and built from anti-static materials. It is small enough to fit in a hand or pocket, or to clip onto a belt.

Preparation for Use

The Vibrating Pager Unit is designed and certified for use in Zone 0 areas and can be used in Zone 1, Zone 2, and uncertified areas. The T4 temperature rating limits the areas where the device may be used. Use of the device must be in accordance with the recognised standards of the appropriate authority in the company concerned. For further information please contact Crowcon. Prior to use please ensure local regulations and site procedures are followed.

Use of the Vibrating Pager Unit

The device may be clipped to a suitable portable gas detector by means of the specifically designed clip. This is designed to slide over the clip of a Gasman II and click positively into place.

The device may also be used separated from a suitable portable gas detector by up to 2 metres distance in any orientation. Thus allowing use of the device in the inside pocket of an operator, separate from an externally worn portable gas detector.

The device is weatherproof and relatively tough but should not be mistreated. It is suggested that the operator keep the device clean, though it is made from chemically resistant plastic and the stainless steel fixings should not rust.

Operation

Warning

Prior to carrying out any work ensure local regulations and site procedures are followed. Although the device is certified intrinsically safe NEVER attempt to open the enclosure when flammable gas is present.

Checking the Vibrating Pager Unit Function

Take the device and push the switch from the off position to the on position, standard “1” and “0” symbols are used to denote on and off positions. The device will vibrate for a short period to indicate the motor and motor drive circuitry function, and to show the operator the batteries have not run out of energy. A suitable portable gas detector, eg. a Gasman II from Crowcon incorporating a low-power transmitter, will emit bursts of radio waves immediately after initial switch-on and when an alarm condition is signaled. Thus switching on a suitable portable gas detector within 2 metres of a Vibrating Pager Unit will cause the Vibrating Pager Unit to vibrate, thereby providing a test of both the receiver circuitry and the motor drive function.

Routine Maintenance

The operation of the Vibrating Pager Unit depends upon the batteries not being flat. It is recommended that the Vibrating Pager Unit be switched off when not in use. When in normal use with few infrequent alarms to report, the battery life should exceed 6 months when operated for 8 hours per day. If many alarms are reported the battery life may be expected to drop.

The Vibrating Accessory should not be held under water, as there is a risk the device will fill with water thereby hampering operation.

Replacement of Batteries

The Vibrating Pager Unit has been certified for use with 2 AA disposable batteries. 2 types are permitted: Duracell, and alkaline Ever-ready. Other battery makes or types are not permitted, as the product is not certified for use in hazardous areas when fitted with alternatives. If an operator is unsure about the battery types allowed, then they should contact Crowcon.

To Change the Batteries:

- Turn the device off.
- Open the enclosure in a safe area by unscrewing the hex head screw using a M3 Allen key.
- Remove the two batteries.
- Replace them with 2 new batteries of a recommended type.
- Re-assemble the device and tighten the screw.
- Turn the device on and check it vibrates.

FCC Notice

This device complies with Part 15 of the U.S. Federal Communications Commission (FCC) Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE
Any changes or modifications not expressly approved by Crowcon could void the users authority to operate this device.

Specifications

Dimensions:	56 x 74 x 20 mm including the clip 2.2 x 2.9 x 0.8 inches including the clip
Weight:	100 grams including the batteries
Operating temperature:	-10 to +50 °C 14 to 122 °F
Ingress Protection:	IP66
Safety Protection:	Intrinsically Safe
Approval Code:	EEx ia IIC T4 Div 1 Class 1 Groups A B C D
Zones:	0 1 2