

A HALMA COMPANY

GP6, GP10 and GP12 Sirens

INSTALLATION AND MAINTENANCE

1. Installation

- a. Fix siren to a firm level base at a minimum height of 3m above the ground and free of side or top obstructions.
- b. For best all round sound propagation mount the unit at a height of 4.5 to 6m with 50m clear radius all round.
- c. Figure 1 overleaf shows a polar plot of the sound output from the sirens *in free space*.

Please note that the propagation of sound in air is affected by the following factors which must be accounted for when calculating the coverage of the siren:

- Variations of the propagation speed in the air
- Attenuation of the sound during propagation
- Wind and turbulence of the atmosphere
- Obstacles placed in the vicinity of siren and listener.
- Ambient noise levels
- d. The plot assumes ideal free-field conditions.

The following losses must be taken into account during commissioning:

• Sound attenuation loss over distance in free-field conditions without obstructions.

Distance in Metres		1	30	100	200	500	1000	2000
Audibility dB(A)	GP6	135	105	95	89	81	75	69
	GP10	140	110	100	94	86	80	74
	GP12	145	115	105	99	91	85	79

Attenuation in decibels per kilometre due to absorption of sound in air (10°C, 90%RH).

At 500 Hz frequency the attenuation is 1.6 dB(A)/kilometre

• Absorption due to fog in decibels per kilometre.

At 500 Hz frequency the attenuation is 1.0 dB(A)/kilometre

The two figures provided for sound absorption in clear air and fog are sound losses in addition to the typical sound losses experienced over distance indicated in the table above.

- e. This equipment should only be connected to the supply voltage marked on the rating plate.
- f. **WARNING:** The equipment should be protected from access by persons, animals or foreign bodies to avoid injury to persons or damage to equipment affecting safe use.
- g. **WARNING:** This equipment contains rotating parts. Please ensure that the retaining straps on the rotor are left in place until the installation is complete and the equipment is ready to be tested for the first time.
- h. **WARNING:** Keep well clear of the siren when in operation. Extremely high noise levels are produced. Unprotected exposure could lead to permanent hearing damage. Ensure appropriate hearing protection is used when working in close proximity to siren.

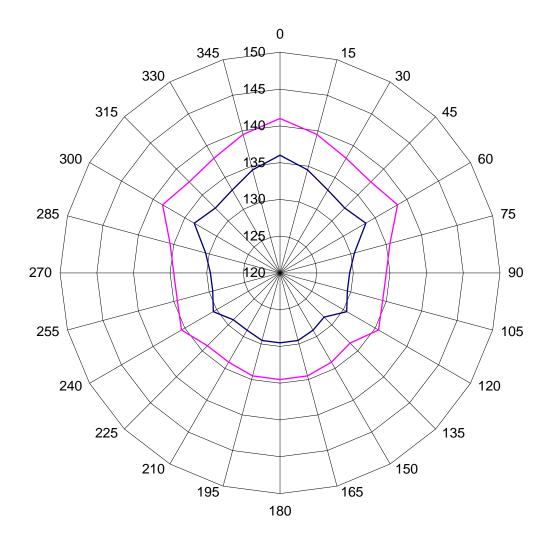
2. Maintenance

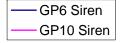
- a. The siren should be periodically tested for correct function. Typically this could be quarterly or half yearly.
- b. Motor bearings are sealed and rated for a life of 25,000 hours. No maintenance is required

3. Contacting Klaxon

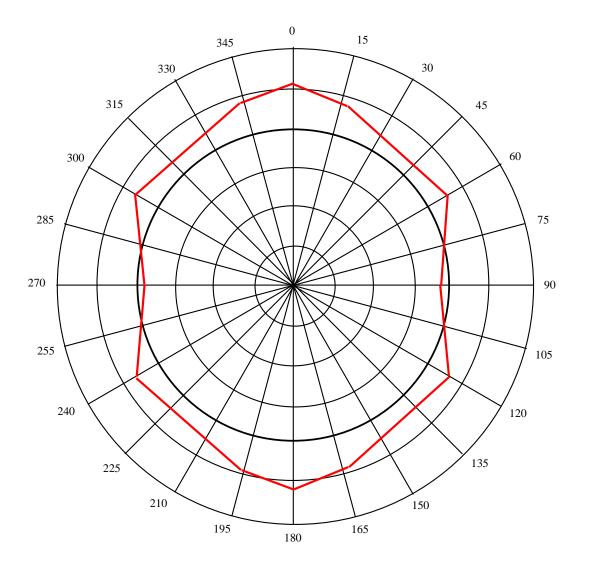
Klaxon Signals Ltd, Wrigley St, Oldham, England , OL4 1HW

Technical Helpline:	+44 (0) 161 287 4029
Sales Hotline:	+44 (0) 161 287 5555
Fax:	+44 (0) 161 287 5511
E-mail:	sales@klaxonsignals.com
Web:	www.klaxonsignals.com





GP12 Double Ended Siren – Polar Plot of Sound Output (dbA @ 1m)



Free Manuals Download Website <u>http://myh66.com</u> <u>http://usermanuals.us</u> <u>http://www.somanuals.com</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.com</u> <u>http://www.404manual.com</u> <u>http://www.luxmanual.com</u> <u>http://aubethermostatmanual.com</u> Golf course search by state

http://golfingnear.com Email search by domain

http://emailbydomain.com Auto manuals search

http://auto.somanuals.com TV manuals search

http://tv.somanuals.com