

Fig 1. GP6, GP10 & GP12 Sirens - Polar Plot of Sound Output (dBA @ 1m)

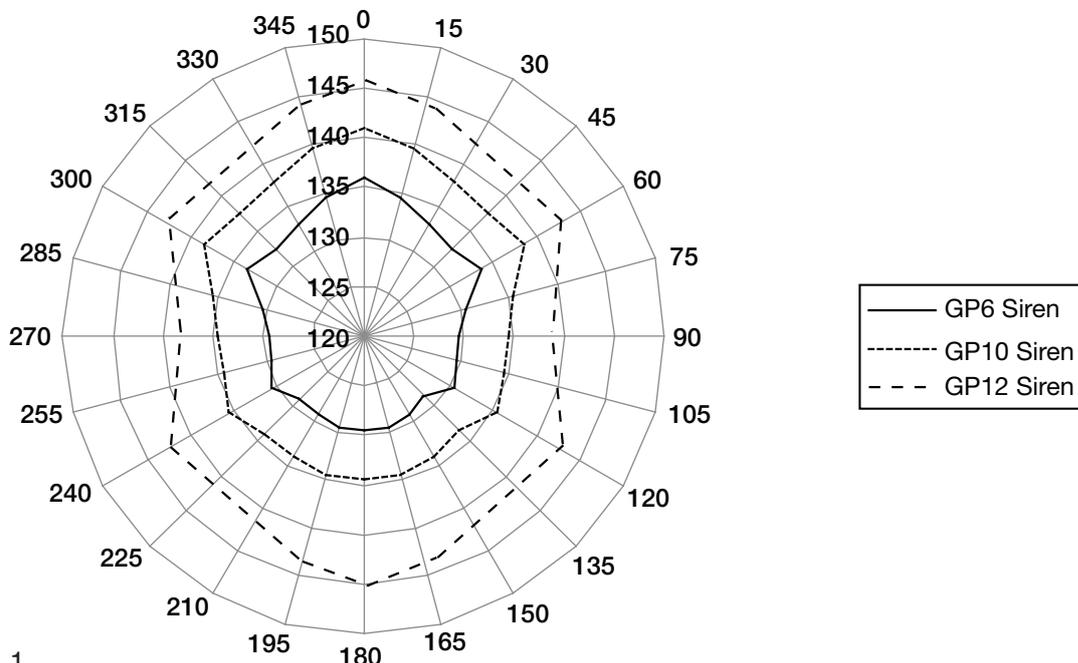


Fig. 1

### Installation

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

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

Typically these losses reduce the sound level by 10dBA for every doubling of distance from the siren.

The following table details the typical sound level that can be expected at various distances from the siren.

Distance in Metres	30	100	200	400	800	1000	1500
Audibility	GP6	106	90	80	70		
dB(A)	GP10	121	103	93	83	73	
	GP12	124	107	97	87	77	67

- This equipment should only be connected to the supply voltage marked on the motor rating plate
- The plastic restraining straps on the rotor should be cut away before testing siren for the first time.
- 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.
- 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.
- 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 the siren.



The European directive "Waste Electrical and Electronic Equipment" (WEEE) aims to minimise the impact of electrical and electronic equipment waste on the environment and human health. To conform with this directive, electrical equipment marked with this symbol must not be disposed of in European public disposal systems. European users of electrical equipment must now return end-of-life equipment for disposal. Further information can be found on the following website: <http://www.recyclethis.info/>.