

## Motor Driven Sirens

Wide Area Siren

  
INDUSTRIAL SIGNAL PRODUCTS



Signaworks 9013 Heritage Drive Plain City, OH 43064 (614) 873-0980, Fax (614) 873-0982

[sales@signaworks.com](mailto:sales@signaworks.com) [www.signaworks.com](http://www.signaworks.com)

## GP Range

The GP range of conventional motor powered sirens provides a basic solution to address wide area mass alert signalling for all industrial, civil, commercial and environmental requirements.

The products are of simple rugged construction and provide a low frequency traditional air raid sound.

### Main Features

- Audibility range between 106db @ 30metres for the smallest unit to 121db @ 30metres for the largest unit. Sirens in this range in increasing order of sound output are the GP6, GP10 & GP12 units.
- 475Hz constant tone signal for the GP6 & GP10 sirens and a combined 470/560Hz constant tone signal for the GP12 siren.
- Roughly omni-directional sound coverage which peaks in the direction of the front of the stator.
- 400Vac +/- 10% 50Hz 3 phase nominal power supply requirement. (Alternative voltages and frequencies available on request).
- Operating temperature range for the standard GP6 & GP10 units of -20 to +40 degrees C, (Increased temperature range units available on request), and for the GP12 of -20 to +55 degrees C.
- Cast aluminium & steel construction.
- Environmental rating of IP55.
- If the power supply to the sirens is pulsed to enable the siren to produce a 'wail' tone then the maximum run time of the siren is reduced from continuous for constant tone to 15 minutes.
- Custom built control units can be supplied to enable the siren to produce the 'wail' tone signal and associated controls.
- If mounted in a climate where icing can occur the unit should be fitted with thermostatically controlled heaters.



GP6 Siren



GP10 Siren



GP12 Siren

## Numeric Information

Siren Type	Motor Power	Current Rating	Weight	Dimensions: Overall Length Width & Height	Dimensions: Rotor Diameter
GP6	2.2kw	4.5A	52kg	460 x 400 x 440mm	400mm
GP10	5.5kw	11A	98kg	540 x 490 x 560mm	500mm
GP12	11kw	18A	208kg	760 x 500 x 590mm	500mm

# Motor Driven Sirens



**FP6 Siren**



**FP10 Siren**

## FP Range

The FP range of conventional motor powered sirens provides a basic solution to address wide area mass alert signalling in hazardous area locations for all industrial, civil, commercial and environmental requirements.

The products are of simple rugged construction and provide a low frequency traditional air raid sound.

## Main Features

- Audibility range between 106db @ 30metres for the smallest unit to 121db @ 30metres for the largest unit. Sirens in this range in increasing order of sound output are the FP6 & FP10 units.
- 475Hz constant tone signal.
- ATEX approved for zone 1 & 2.
- Overall siren standard approval Exd IIG IIC T4.
- Non electrical parts standard approval EExc IIC T1..T6 X.
- Roughly omni-directional sound coverage which peaks in the direction of the front of the stator.
- 400Vac +/- 10% 50Hz 3 phase nominal power supply requirement. (Alternative voltages and frequencies available on request).
- Operating temperature range for the GP6 & GP10 units of -20 to +40 degrees C.
- Cast aluminium & steel construction.
- Environmental rating of IP55.
- If the power supply to the sirens is pulsed to enable the siren to produce a 'wail' tone then the maximum run time of the siren is reduced from continuous for constant tone to 15 minutes or less.
- Custom built control units can be supplied to enable the siren to produce the 'wail' tone signal and associated controls. The controls are only suitable for locating in a non-hazardous area.

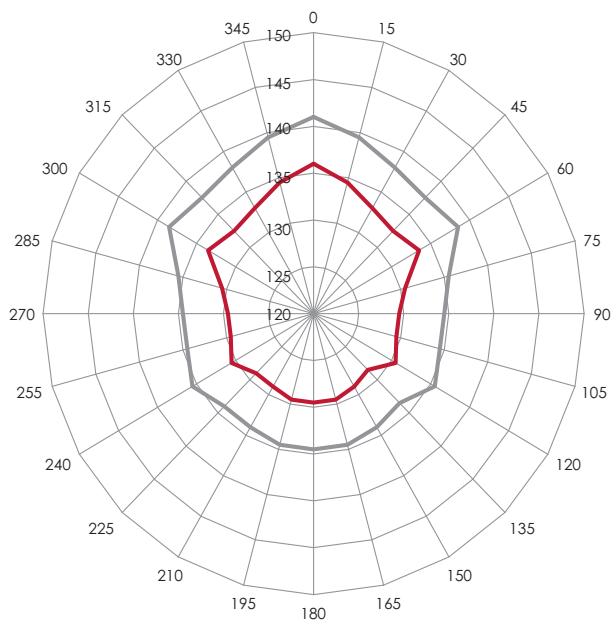
## Numeric Information

Siren Type	Motor Power	Current Rating	Weight	Dimensions: Overall Length Width & Height	Dimensions: Rotor Diameter
FP6	2.2kw	4.5A	68kg	490 x 394 x 437mm	400mm
FP10	5.5kw	13A	80kg	614 x 490 x 555mm	500mm

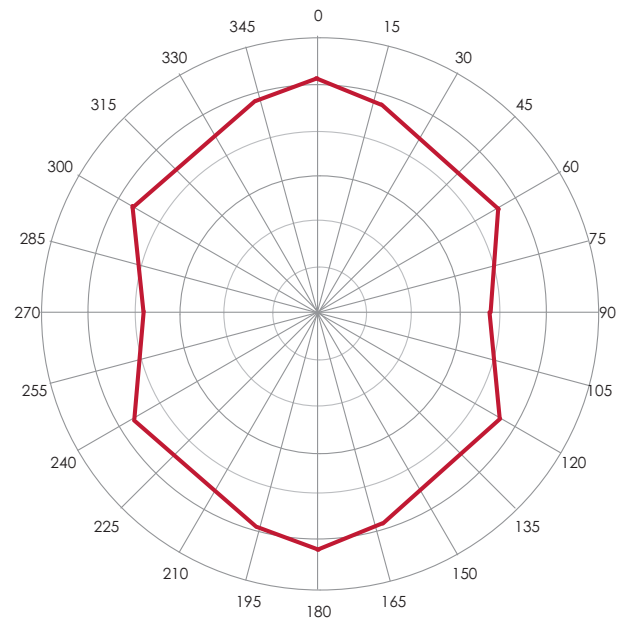
## Sound Coverage Plot

Below are typical sound coverage plots for the GP & FP range of siren and anticipated coverage distance in clear still air on level terrain with no obstructions.

### Single ended GP & FP siren coverage (GP6, FP6, GP10 & FP10)



### Double ended GP & FP siren coverage (GP12)



— GP6 & FP6 Siren  
— GP10 & FP10 Siren

## Sound Attenuation Chart

Model Audibility (db)	Configuration Omni-Directional	Distance from Siren (Metres)						
		30	100	200	400	800	1000	1500
GP6/FP6	○	106	90	80	70			
GP10/FP10	○	121	103	93	83	73		
GP12	○	124	107	97	97	77	74	67