

Motor Driven Sirens



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 siren sound.

Main Features

- Audibility range between 135db @ 1 metre, (105db @ 30metres) for the smallest unit to 145db @ 1 metre, (115db @ 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 475/560Hz constant tone signal for the GP12 siren.
- Roughly omni-directional sound coverage which peaks in the direction of the front stator face
- 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 +60 degrees C and for the GP12 -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.
- Control units can be supplied to enable the siren to produce the 'wail' tone signal with associated control switches.
- If mounted in a climate where icing can occur the unit should be fitted with thermostatically controlled heaters.
- The Motor windings are tropicalized as standard.
- Anti-condensation heaters for the motor can be supplied.



GP6 Siren



GP10 Siren



GP12 Siren

Note: Dimensions indicated are for sirens fitted with standard motors.

Numeric Information

Siren Type	Product Code	Motor Power	Current Rating	Weight	Dimensions: Overall Length Width & Height
GP6	SWG0032	3.8Kw de-rated to 2.2Kw	5A	50Kg	492 x 398 x 438mm
GP6 with Heaters	SWG0036	for 60°C operation		52Kg	582 x 398 x 438mm
GP10	SWG0023	7.5Kw de-rated to 5.5Kw	11A	110Kg	536 x 495 x 557mm
GP10 with Heaters	SWG0037	for 60°C operation		112Kg	576 x 495 x 557mm
GP12	SWG0006	11Kw	22A	195Kg	762 x 496 x 585mm
GP12 with Heaters	SWG0005			199Kg	842 x 496 x 585mm

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 135db @ 1 metre, (105db @ 30metres) for the smallest unit to 140db @ 1 metre, (110db @ 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 stator face.
- 400Vac +/- 10% 50Hz 3 phase nominal power supply requirement. (Alternative voltages and frequencies available on request).
- Operating temperature range for the FP6 & FP10 units of -20 to +60 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.
- Control units can be supplied to enable the siren to produce the 'wail' tone signal with associated control switches. The controls are only suitable for locating in a non-hazardous area.
- The Motor windings are tropicalized as standard.
- Anti-condensation heaters for the motor can be supplied.
- The standard siren builds offered are fitted with EExde rated motors but EExd motors can be supplied.

Note: Dimensions indicated are for sirens fitted with standard motors.

Numeric Information

Siren Type	Product Code	Motor Power	Current Rating	Weight	Dimensions: Length x Width x Height
FP6	SWG0028	3.8Kw de-rated to 2.2Kw for 60°C operation	5A	66Kg	521 x 398 x 448mm
FP10	SWG0034	7.5Kw de-rated to 5.5Kw for 60°C operation	11A	143Kg	612 x 495 x 557mm

GP & FP Siren Control Panels

Control panels are available for use in controlling GP & FP sirens to enable the sirens to which they are attached to produce two warning signals. A constant tone signal and a wail/undulating tone signal.

Main Features

- Lockable IP65 rated enclosure manufactured from powder coated mild steel with a lockable door isolator switch.
- Integral switches mounted on the door of the enclosure to activate and deactivate the attached siren.
- Remote input switch facility. (VFC switches required to switch a 110Vac powered control signal).
- Adjustable wail tone signal duty cycle. (Normally set to 4 seconds on 4 seconds off cycle pattern).
- Adjustable maximum warning signal duration timer.
- Monitoring facilities include:
 1. Contactor overload relay state via an auxiliary volt free contact.
 2. Contactor state via an auxiliary volt free contact.
 3. 2 indicators to show the presence of 400Vac and the derived 110Vac.
- Protected GP siren heater 230Vac power output source.
- Protected 110Vac remote siren contactor feed for multiple sirens.
- Thermistor trip relay for FP sirens.



Product Code	Siren Control Panel
SWC - 0027	GP6
SWC - 0028	FP6
SWC - 0029	GP10
SWC - 0030	FP10
SWC - 0031	GP12

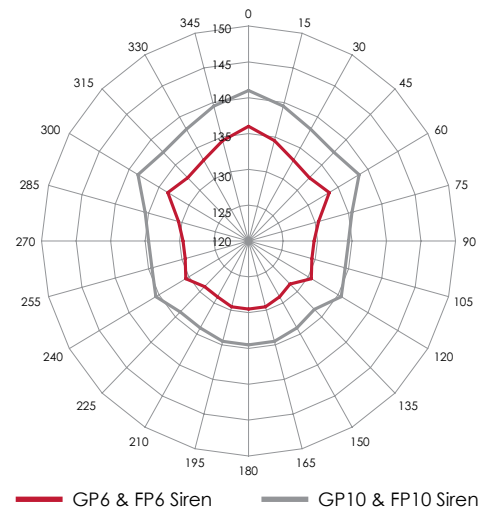
Sound Attenuation Chart

Model Audibility (db)	Configuration Omni-Directional	Distance from Siren (Metres)						
		30	100	200	400	800	1000	1500
GP6/FP6	○	105	93	83	73	63	-	-
GP10/FP10	○	110	98	88	78	68	65	-
GP12	○	115	103	93	83	73	70	63

Sound Coverage Plots

The plots below show the anticipated coverage distance in clear still air on level terrain with no obstructions, using a 10db reduction in sound pressure level per doubling of distance.

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



Double ended GP siren coverage (GP12)

