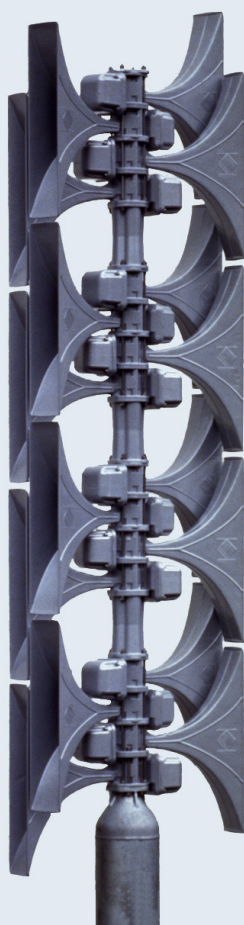




## Warning and Information

### Electronic Siren ECN 2400-D



System	Sound Pressure Level	121 dB (A) / 30 m
	Fundamental Frequency	415 Hz / 425 Hz
	Siren Sound / Signal	Customer Specification
	Digital Textmessages	Customer Specification
	Standby-time	up to 7 days
	Number of Alarms available within 48 h without Mains Power Supply	up to 20
Siren Head	Number of Horns / Drivers	16
	Weight Siren Head	121 kg
	Head Dimension (W x H x D)	300 x 2900 x 850 mm
	Windload at 160 km/h	2200 N
	Material of Horns	Aluminium (Alloy)
Siren Cabinet	Mains Power Supply	230 V or 110 V +/- 10%
	Battery Voltage	24 V
	Max. Charging Current	4 A
	Local Activation and Display	Foil Keypad and LCD-Display
	Remote Activation and Control	Customer Specification
	Live PA Annoucements	Available
	Cabinet Dimensions (W x H x D)	600 x 600 x 350 mm
	Cabinet Design	Stainless Steel or Powder-coated
	Cabinet Protection	IP65
	Weight incl. Batteries	87 kg
	Ambient Temperature Range	-25°C ... +65°C
Specifi cations are subject to change without notice. Further details according to product information ECN-D.		

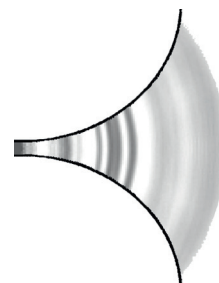
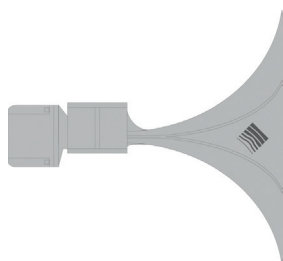
# Electronic Siren ECN 2400-D

## Sound Propagation by the ECN Siren Horn

### Vertical Sound Propagation

The ECN siren horn is a specific development with exponential increase of the horn's cross sectional surface, to propagate siren signals with high sound intensity.

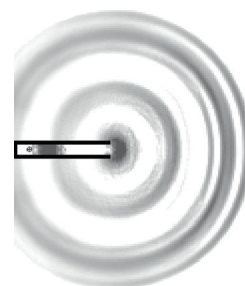
This special horn design assures optimum propagation of the sound wave within the horn, is widely in use, thoroughly tested and has proven to generate signals with high intensity.



### Horizontal Sound Propagation

The siren horn's omnidirectional propagation of the sound wave in horizontal plane is based on the „Huygens principle“.

This physical guideline explains the diffraction of a sound wave at a single slit. Diffraction of sound results in a circular sound wave of omnidirectional characteristic, which leads to 360° sound propagation.



## Propagation of Sound Pressure Level (SPL)

