



FaradicWave (FW/1) Fog Signal



Phone: (337) 837-Essi (3774)

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[www.essicorp.com](http://www.essicorp.com)

The Essi Corporation Model FaradicWave (FW/1) Fog Signal is a very Durable/Reliable One-Half (0.5) Nautical Mile (audible equivalent) Omni-Directional fog signal emitting a 360-degree beam of sound in the horizontal plane.

On September 8, 2005, the FW/1 Fog Signal was approved for use by the the United States Coast (USCG) as a one-half (0.5) nautical mile fog signal 120.5 (db) at one (1) meter with 9.86 Watts of power input to the emitter at a frequency of 653 Hertz.

The FaradicWave (FW/1) Fog Signal was designed from "inside/out". The inside being the compression driver(s) and the power amplifier. With harsh environmental considerations, the compression driver(s) are designed without "off the shelf" components. The FW/1 power amplifier is the smallest existing one-half (0.5) mile fog signal amplifier.

The (FW/1) Fog Signal is designed to operate from twelve (12) volts direct current (dc) battery bank. Essi Corporation recommends our Galvanic Rechargeable Energy Cells (batteries) together with our Radiance Solar Energy Generators (solar panels) for recharging the batteries.

**Special Features:**

Efficient (height vs. input power vs. spl.)

Reliable (fewer malfunctions)

Durable (heavy guage aluminum horn)

Compact (helicopter transportable)

Field Friendly (easier to repair/replace with all major components located in one or two centarl chambers).

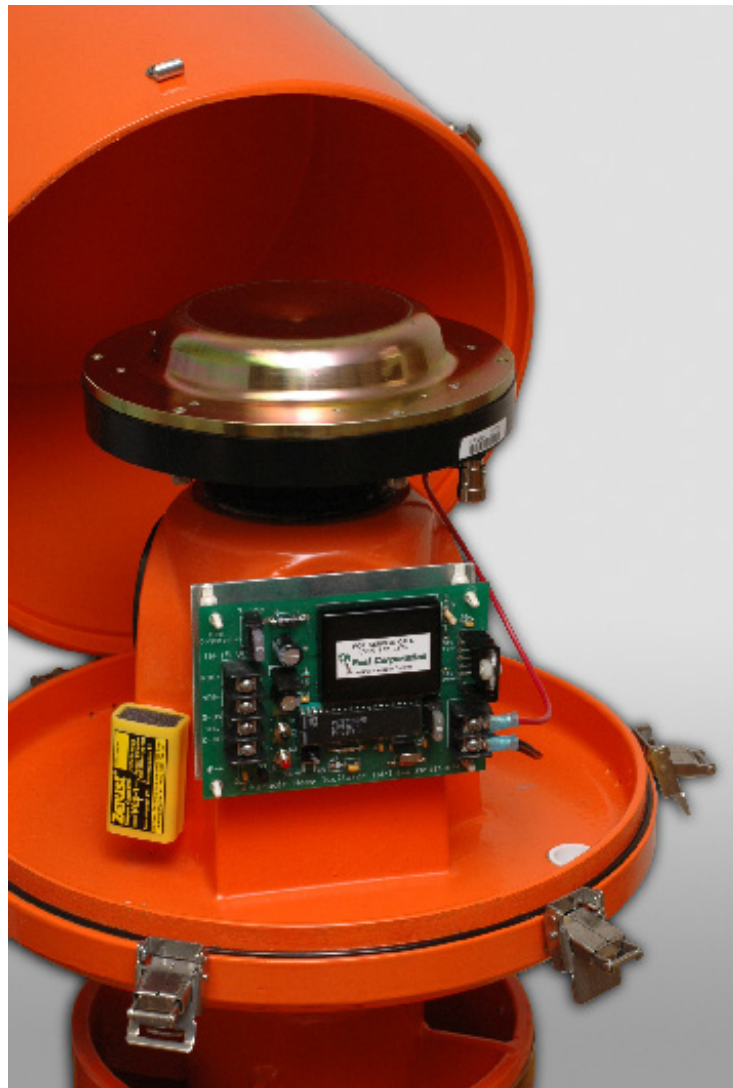
**Applications:** Marking of Artificial Islands and Fixed Structures, Oil/Gas Platforms, and Drilling Rigs.

**Certifications:** United States Coast Guard (USCG)- Title 33 Code of Federal Regulations Part 67, Subpart 10 (33CFR67.10).

**Classifications:** Factory Mutual (FM) Listed for Class I, Division II, Group(s) C&D (Hazardous) Locations.

**Power:** Twelve (12) or Twenty-four (24) volts direct current (dc) rechargeable energy cells (batteries).

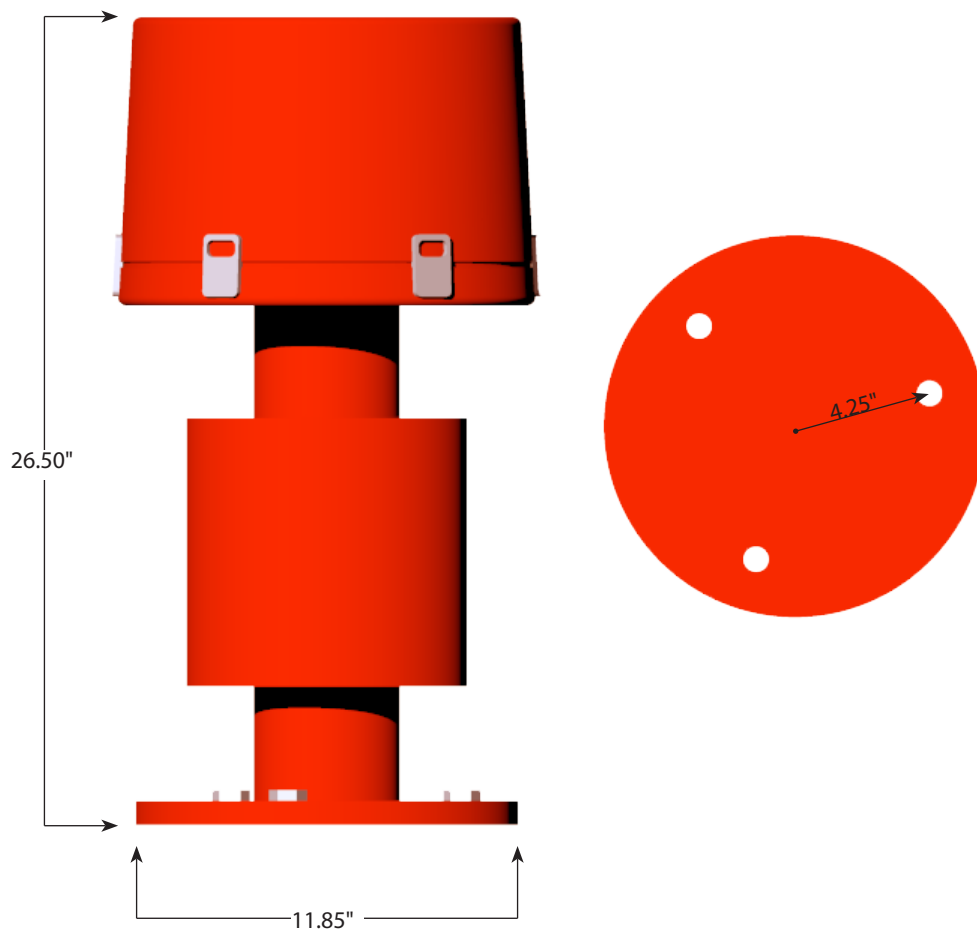
**Monitoring:** This unit is compatible with Essi's Smart Field Monitoring, a system designed to monitor and alert customers of device outage, low voltage, fault, malfunction or non-compliance.



Detail shot of Central Chamber with Major Components



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Manufacturer	: Essi Corporation
Origin	: Lafayette/Broussard, Louisiana, United States Of America
Model	: FaradicWave (FW1) Fog Signal
Part Number	: FW1
Audible Range	: (0.5) Nautical Mile Range - Omnidirectional
Application(s)	: Marking Of Artificial Islands And Fixed Structures
Application(s) - Continued	: Oil/Gas Platforms And Drilling Rigs, Ports, Harbors, Buoys
Certification(s)	: United States Coast Guard (USCG) - Title 33CRF67
Classification(s)	: Factory Mutual (FM) Listed
Classification(s) - Continued	: Class I, Division II, Group(s) C&D (Hazardous Area)
Approval(s) -	: United States Coast Guard (USCG)
Requirement(s) -	: United States Department Of Interior
Requirement(s) - Continued	: Minerals Management Service (MMS) - (GOM) - (OCS)
Requirement(s) - Continued	: International Association Of Marine Aids To Navigation
Requirement(s) - Continued	: And Lighthouse Authorities (IALA)
Output Frequency	: 653 Hertz
Under Voltage Protection	: Auto Shut Off @ 9.8 Volts DC
Input Direct Current Voltage	: 10-15VDC
Input Direct Current Voltage (Optional)	: Adaptation For 24 VDC Up To 30 VDC
Output Waveform	: Modified Sine Wave
Typical Efficiency	: 80% - Approximately
Input Power (Watts) To The Emitter	: 12.0 Watts
Sound Pressure Level (SPL)	: 120.5 db At One (1) Meter
Two (2) Hour Time Delay - Internal	: Included (Push Button)
Fuses	: (1) Included (For (1) Compression Drivers)
Operating Codes - Standard	: (2) Codes (2.0-18.0)=United States Or (Morse "U")=International
Operating Codes - Others	: Upon Request
Compression Driver(s)	: One (1)
Magnet(s)	: Neodymium
Diaphragm(s)	: Phenolic
Voice Coil Protection From Harsh Environment	: Included
Housing (Horn) Color	: Safety Orange
Humidity	: 100% Non-Condensing
Smart Field Monitoring (optional)	: Remote monitoring of operational status with alert capabilities
Environmental Conditions - Storage Temperature	: (-40) degrees Celsius - (+65) degrees Celsius
Environmental Conditions - Normal Operating	: (-20) degrees Celsius - (+65) degrees Celsius
Wind Conditions	: Wind Tunnel Testing (Pending)
Weight	: 60 Pounds (lbs.) or 36.28 Kilograms (kg.) - Approximate
Weight - Domestic Shipping	: 110 Pounds (lbs.) or 68 Kilograms (kg.) - Approximate
Weight - International Shipping	: 175 Pounds (lbs.) or 79.36 Kilograms (kg.) - Approximate
Dimensions (Height)	: (26.5) Inches or (.6350) Meters - Approximate
Dimension (Width) = Diameter	: (12) Inches or (0.3048) Meters - Approximate
Dimensions (Base) = Diameter	: (12) Inches or (0.3048) Meters - Approximate
Warranty	: One (1) Year (Refer To Essi Corporation's Written Policy)
Warranty - Continued	: Two (2) Year (With Field Installation By Essi Corporation)



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