



FaradicWave (FW/6) Fog Signal



Phone: (337) 837-Essi (3774)

Fax: (337) 837-3712

www.essicorp.com

The Essi Corporation Model FaradicWave (FW/6) Fog Signal is a very durable/reliable Two (2.0) 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/6 Fog Signal was approved for use by the United States Coast Guard (USCG) as a two (2.0) nautical mile fog signal producing 133.2 decibels (db) at one (1) meter with 83.85 Watts of power input to the emitter at a frequency of 664 Hertz.

The FaradicWave (FW/6) 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/6 power amplifier is the smallest existing Two (2.0) mile fog signal amplifier .

The FW/6 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)

Minimal Height (human safety)

Compact (helicopter transportable)

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

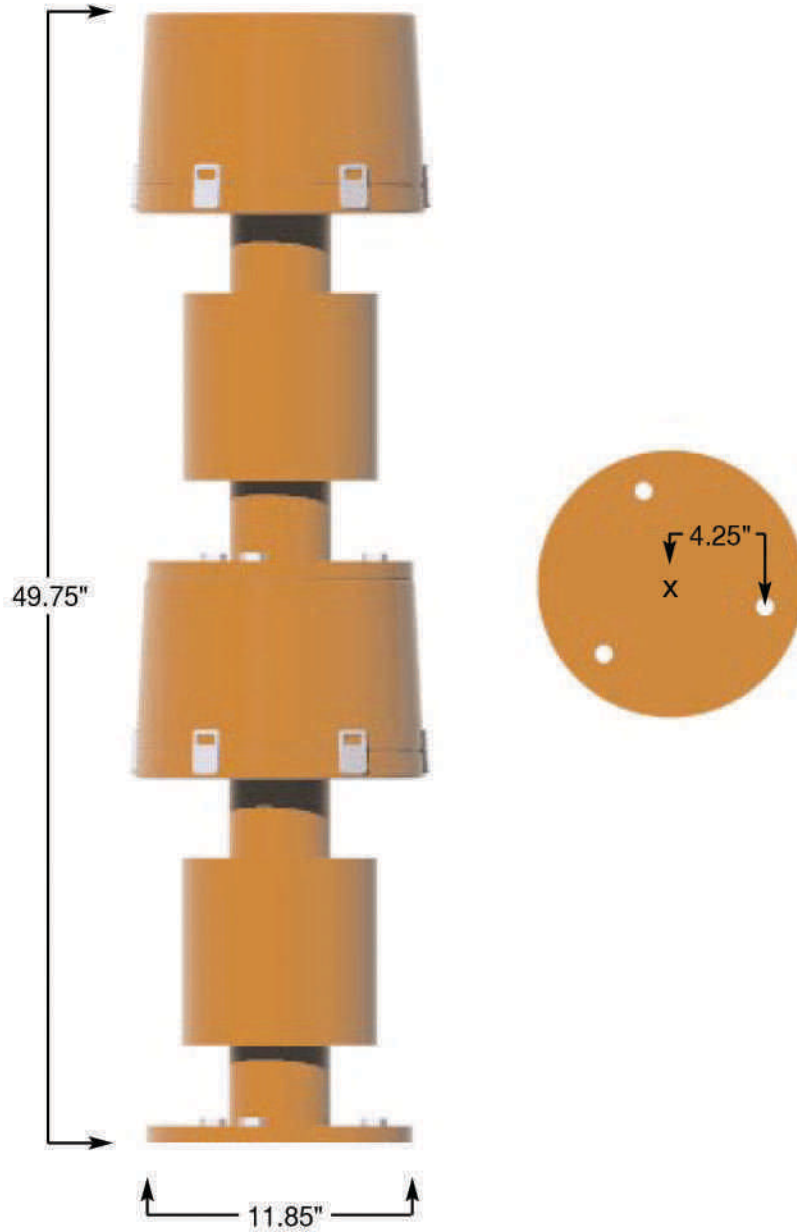
**Power:** Twelve (12) volts direct current (dc) rechargeable energy cells (batteries).

**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 inside





Phone: (337) 837-Essi (3774)

Fax: (337) 837-3712

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

|  |   |
|--|---|
| Manufacturer                                   | : Essi Corporation  |
| Origin   | : Lafayette/Broussard, Louisiana, United States Of America        |
| Model  | : FaradicWave (FW/6) Fog Signal                                   |
| Patent Number                                  | : US7,360,499 B1 \ US D556,077 S                                  |
| Part Number                                    | : FW/6  |
| Audible Range                                  | : (2.0) 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) - Continued                     | : 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 (Typical 12 VDC minimum)                               |
| Input Direct Current Voltage (Optional)        | : Adaptation For 24 VDC Up to 30 VDC                              |
| Recommended DC Cable                           | : 10 gauge- AWG (<25 feet)  |
| Output Waveform                                | : Modified Sine Wave  |
| Typical Efficiency                             | : 80% - Approximately   |
| Minimum Input Power (Watts) To Acoustics       | : 83.85 Watts   |
| Typical DC Input Power                         | : < 120 Watts Total   |
| Sound Pressure Level (SPL)                     | : 133.2 db At One (1) Meter                                       |
| Two (2) Hour Time Delay - Internal             | : Included (Push Button)  |
| Fuses  | : (6) Included (For (6) Compression Drivers)                      |
| Operating Codes - Standard                     | : (2) Codes (2.0-18.0)=United States Or Morse International       |
| Operating Codes - Others                       | : Upon Request  |
| Compression Driver(s)                          | : Six (6)   |
| Magnet(s)                                      | : Neodymium   |
| Diaphragm(s)                                   | : Phenolic  |
| Voice Coil Protection From Harsh Environment   | : Included  |
| Housing (Horn) Color                           | : Safety Orange / Yellow (Wind Farm)                              |
| 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    | : (-40) degrees Celsius - (+65) degrees Celsius                   |
| Weight   | : 140 Pounds (lbs.) or 63 Kilograms (kg.) - Approximate           |
| Weight - Domestic Shipping                     | : 300 Pounds (lbs.) or 136 Kilograms (kg.) - Approximate          |
| Weight - International Shipping                | : 350 Pounds (lbs.) or 159 Kilograms (kg.) - Approximate          |
| Dimensions (Height)                            | : (50) Inches or (1.27) 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)      |



Phone: (337) 837-Essi (3774)

Fax: (337) 837-3712

www.essicorp.com