

EM-G18 - Subspace Beacon

Emrys Industries

A Tamahagane Company

The [Emrys Industries](#) Subspace Beacon is an emergency communications device to help stranded space travelers to be found. It became available in [YE 34](#).

About the EM-G18

The EM-G18 is a rechargeable subspace beacon, it has multiple modes of operation. It is capable of being recharged from any stable power system, or the [EM-G9-G3302 Solar panel](#). The unit unless connected to an external power operates in a pulse mode.

Appearance

The beacon is a compact device the base is cylindrical with the control switches on the side. The upper portion is conical and is the antenna matrix. When the beacon is on the upper module crystals glow.



Details

Manufacturer: [Emrys Industries](#) Nomenclature: EM-G18-01a Type: Emergency Class: Communications
Designer: [Tamahagane Corporation R&D](#) **Price:** 500 KS

Dimensions

Height: 25 cm / 10 in Width: 10 cm / 4 in

Using the EM-G18

The EM-G18 is designed for easy use, there is dual function switch on the side, that has OFF, Short Range, and Long Range. Above the switch are two LED indicators. The green one indicates that the unit is operating, the red one indicates a message has been received.

To switch between Prerecorded and Custom the center of the button can be pressed. When pressed and held, it goes into record mode. Once the message is recorded releasing the button will start the transmission. When in custom mode the center of the function switch is illuminated by a blue light.

Regardless of which message is selected, when the beacon transmits it includes as part of the transmission a side carrier with the beacon's serial number. When replying to a beacon the serial number must be included. This keeps the beacon from reacting to other beacons.

After the beacon transmits the message it goes into receive mode and waits, then transmits again at the specified interval.

When the beacon receives a directed message, it activates the red lamp, and emits three loud beeps, then plays the message. It will repeat the message until the operator pushes the red light. The operator can then choose to send a response by using the Custom message feature.

Operating Mode

These are the operating modes when not connected to dedicated power. The only difference when connected is it can run indefinitely.

Long Range

- Range: 20 LY
- **Operating time: (on battery)** Two hours
- **Prerecorded message::** Message recorded by owner/purchasing organization prior to deployment. ¹⁾

- **Custom recorded message** Operator can record a thirty second message.
- **Frequency:** Once every 15 minutes

Short Range

- Range: 5 LY
- **Operating time: (on battery)** Four hours
- **Prerecorded message::** Message recorded by owner/purchasing organization prior to deployment. ²⁾
- **Custom recorded message** Operator can record a thirty second message.
- **Frequency:** Once every 5 minutes

Charging

Solar

The EM-G18 can be recharged by connecting it to the EM-G9-G3302 will recharge the unit in 4 hours with good light.

Generator

The EM-G18 can be recharged by connecting it to a standard power connector. It will charge fully in 1 hour.

¹⁾ , ²⁾

Typically gives the name of the vessel, base, etc, date and time stamp

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