



## Model Satellite Radio Transmitter, GOES™

- Certified for use on GOES and METEOSAT
- Provides Long Term Frequency Stability
- 10 Watt Transmitter
- Handar 555 DAS Required



The GOES Satellite Radio Module consists of a 10-watt transmitter that can be set to any of the allowable 199 domestic GOES and 33 international channels assigned by the National Environmental Satellite Data and Information Service (NESDIS) of the National Oceanographic and Atmospheric Administration (NOAA).

The Temperature Compensated Crystal Oscillator (TCXO) provides the long term frequency stability necessary to keep the transmitter on the assigned frequency and transmission within the allocated time window.

The Satellite Radio Transmitter is compatible with the Handar WWV Receiver or GPS for an automatic update of the transmission clock.

The antenna and cables must be purchased separately. The transmitters are an internal option for the 555 DCP.

## Technical Data

## Model Satellite Radio Transmitter, GOES™

### Product Specifications

**Frequency Coverage:**  
GOES domestic channels (1–199) and  
international channels (202–266)

**Frequency Stability**

**Over Temperature:** ± 0.5 PPM

**Long Term:** ± 1 PPM  
(including temperature)

**Frequency Setting:** To an accuracy of 1 Hz  
under software control

**Output Impedance:** 50 ohms, short and open  
circuit protected

**RF Power Output:** 10 W

**Interface:** Handar 555 serial bus

**Time Keeping:**  
<30 seconds drift per year assuming 100 Hertz  
frequency setting error at beginning of the year

**Functions:**

- Timed transmission operation
- Random transmission operation (GOES)
- Extensive built-in test software
- Configuration and control implemented  
through 555 DCPs
- Configuration query made allows examination  
of set-up parameters

**DC Power Input Voltage:** 12.5 volts nominal  
(11.0V to 15V)

**Current**

**Quiescent:** <6.0 mA (typical)

**Transmit:** 3.5 A

**Environmental**

**Operating:** -40 to +50° C (-40 to +122° F)

**Storage:** -55 to +75° C (-67 to +167° F)

**Dimensions:** 6.5 X 4.75 X 2 in  
(16.51 X 12.07 X 5.08 cm)

**Weight:** 1.25 lbs (0.57 kg)

**Certification:**

NOAA/NESDIS certified for self-timed and random  
GOES transmissions under Signal Engineering  
model numbers SE-120

### Ordering Information

<b>555-7018</b>	Satellite Radio Transmitter, GOES, 555B/SB
<b>555-7025</b>	Satellite Radio Transmitter, GOES, 555F
<b>555-7030</b>	Satellite Radio Transmitter, GOES, 555A/C/C-1 w/ internal battery
<b>555-7031</b>	Satellite Radio Transmitter, GOES, 555A/C/C-1 w/ external battery
<b>555-7046</b>	Satellite Radio Transmitter, GOES, 555ES w/ polyphasor



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Specifications are subject to change without notice.