

YSIT-1

VERSION 2.0 CERTIFIED GOES TRANSMITTER WITH INTERNAL GPS RECEIVER



The **YSIT-1** is a secure and reliable GOES transmitter built for environmental data. Its operations are based on version 2.0 of the DCPRS certification standard. Sensor readings are transmitted over the GOES satellite system by linking to any Storm 3 or XL Series Data Logger. The YSIT-1 is ideal for Surface Water Data Collection Platforms, Meteorological Stations, and Water Quality Measurement Stations.

Key Features

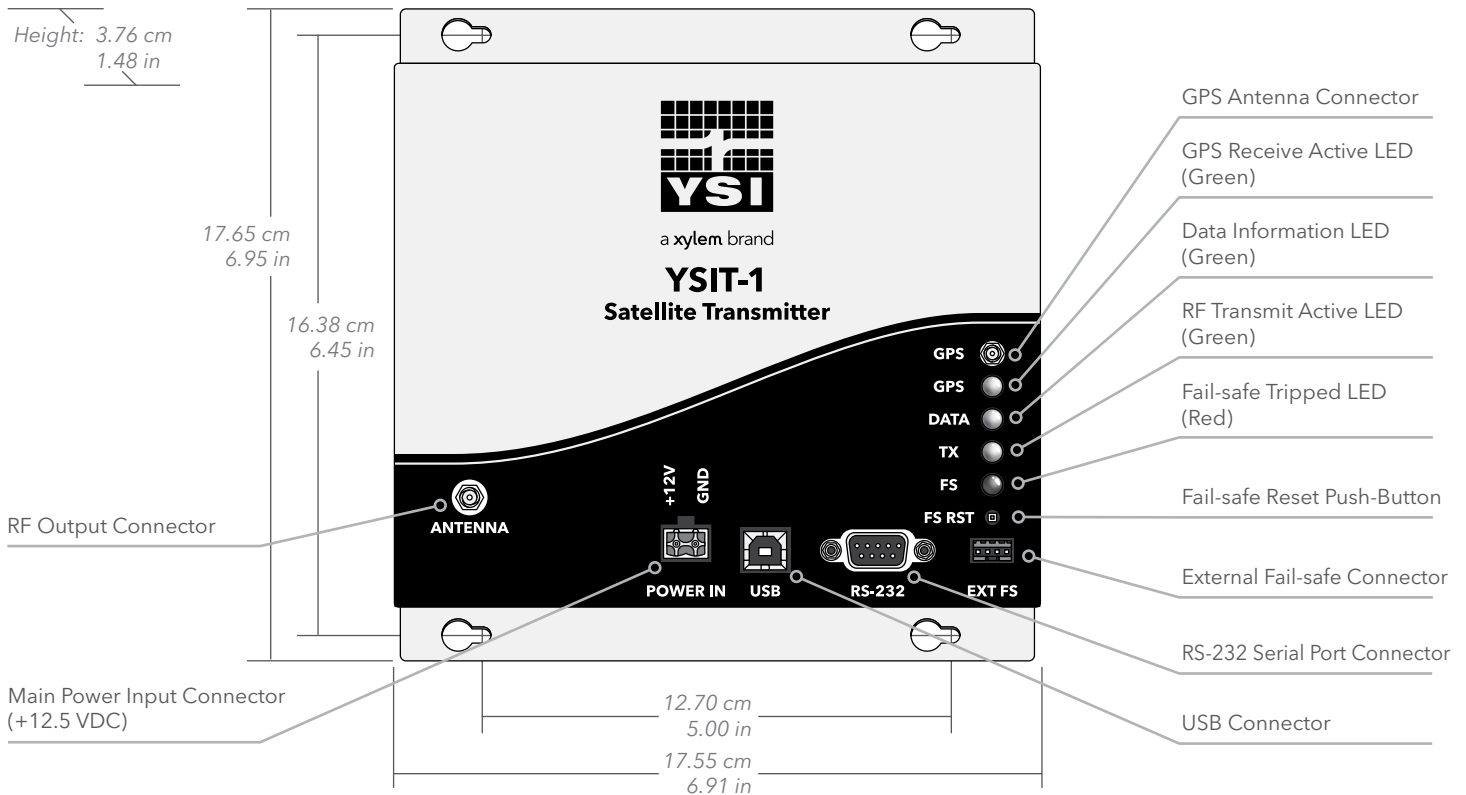
- User-selectable operation modes (GOES, METEOSAT, EUMETSAT, and Himawari)
- Compatible with antennas from 3 to 11 dB gain
- Minimal GPS updates required (as infrequent as 20 days)
- Frequency error is less than ± 125 Hz
- Short-term frequency and stability are better than ± 1 Hz
- RS-232 connectivity
- USB diagnostics port
- Transmitted system health
- Up to 30,000 log entries supported
- NOAA/NESDIS certified



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GENERAL SPECIFICATIONS		TRANSMITTER SPECIFICATIONS	
VDC Power	12.0 V nominal	RF Power	1 - 5 W (GOES/EUMETSAT HDR)
	10.5 to 18.0 V		1 - 10 W (other)
VDC Protection	Reverse and OVP >18.0 V		Adjustable in 0.1 dB steps
Battery Current	1.3 mA quiescent	Frequency Stability	<0.25 PPM
	30 mA during GPS use	Frequency Resolution	<10 Hz
	3 A max at 10 W RF output power	Frequency Range	401 to 403 MHz
Temperature	-40° to +60 °C	Phase Stability	<2 degrees
	-40° to +140 °F	Modulation	100 BPS BPSK (International)
Time Stability	±0.07 PPM typical		100 BPS BPSK (EUMETSAT)
Humidity	±0.10 PPM maximum		1200 BPS OQPSK (EUMETSAT)
	0 to 99% RH non-condensing		<i>EUMETSAT Certification Pending</i>
Size	17.65 L x 17.55 W x 3.76 cm H		100 & 300 BPS BPSK (Himawari)
	6.95 L x 6.91 W X 1.48 in H	NOAA Certification	Cert #: 2023-0001
Weight:	0.91 kg		Date: 10/19/2023
	2.00 lbs		
MISCELLANEOUS			
Warranty	The YSIT-1 is warranted against defects in materials and workmanship for two years from date of shipment.		
Note	Specification subject to change without prior notice due to ongoing commitment to product testing and improvement.		

CONNECTOR & CASE DIAGRAM



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Minding
the Planet?®



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