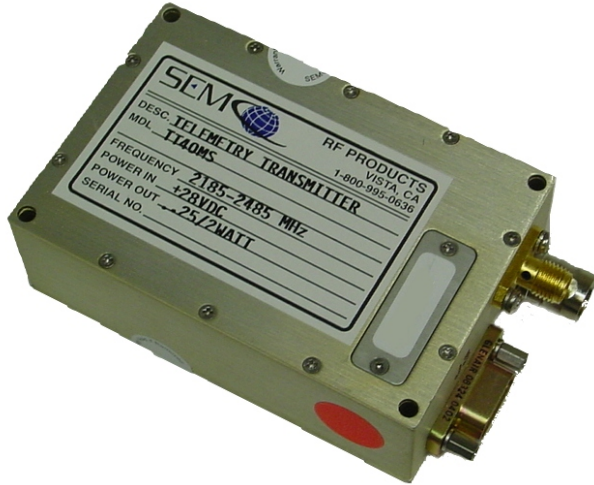




### Standard Features



- 1435-1540, 1710-1850, 2185-2485 MHz
- Fixed or Agile Frequency
- Telemetry
- 0.25 & 2 Watts (dual power)
- FCC Part 90 Type Accepted
- Customer Specified Carrier Deviation

### .25/2W TTMS40 Series Telemetry Transmitter



### Description

- The TT40 series of airborne dual power (.25/2 W) telemetry transmitters are designed to transmit data in the frequency bands covering 1435-1540, 1710-1850 or 2185-2485 MHz. These transmitters are true FM, modular, all solid state and are protected for operation into any VSWR, without damage, including open or short circuit.
- Rugged construction, minimum size and light weight make these transmitters ideally suited for airborne applications and where operation in harsh conditions is required. Multiple frequency operation is achieved by utilization of a frequency synthesizer.
- Transmitters may be ordered as fixed frequency or any number of channels in a given band, spaced in 0.5 MHz increments.
- The Series TT40 telemetry transmitter comes with SEMCO's 1 year warranty on parts and labor.

### Transmitter (Telemetry)

Power	.25/2.0 Watt Selectable
Frequency	2185-2485 MHz
Output Impedance	50 ohms nominal
Spurious Emission	Per IRIG 106-01
Type	FCC Part 90

### ELECTRICAL SPECIFICATIONS

Frequency Range	2185-2485 MHz (standard)
Frequency Selection	Multi-channel
Frequency Stability	+0.003%
Output Power Switchable	250 milliwatts or 2 watts (dual power)
Output Impedance	50 ohms nominal
Spurious Emissions	Per IRIG 106-01

### MODULATION SECTION

Type	FM
Input Impedance	75 ohms (standard), (1K ohms special order)
Frequency Response	10 Hz to 4.5 MHz +1.5 dB, (pre-filters per special order)
Carrier Deviation	Customer specified in kHz peak*
Linearity	+2% BSL
Incidental AM	2% maximum
Incidental FM	+5 kHz maximum

### ENVIRONMENTAL SPECIFICATIONS

Temperature	-20 to +70 degrees C Baseplate (standard) -40 to +80 degrees C Baseplate (special order)
Vibration Sine,	10 G peak, 20-2000 Hz, 3 axes
Humidity 100%	non-condensing (MIL-STD-810 Method 507)
Altitude	Unlimited
EMI-RFI	Per IRIG 106-93

### POWER REQUIREMENTS

Input Voltage	+28 VDC $\pm$ 4 VDC (special order)
Input Current	1 amp @ 2 watts output or 0.3 amp @ 250 milliwatts output

### CONNECTORS

Modulation Input	BNC female
Data, Power Input	15 pin micro D
RF Output	SMA female

### MECHANICAL

Size	3.0 x 2.0 x 1.0 inches
Weight	6 ounces
Volume	6 cubic inches

### OPTIONS

Frequency Range	1435-1540, 1710-1850 MHz
Single Power Output	0.25 W or 2 W

\* example: at 1MB, a 350kHz peak deviation is specified given a 1Vp-p input.

Special orders, please confirm requirement before order.