

# Vanguard® Red FTS 371 SMART for MET Towers

The FTS 371 SMART is a low-power FAA L-810/L-864 red obstruction lighting system for FAA type A0/A1 structures and meteorological (or MET mast) towers. The system can be integrated with a solar power plant where grid power is temporarily or permanently unavailable. The solar plant will provide the minimum 7-day autonomy and 2,000 ECD output per FAA Engineering Brief 76.

## Standard Features

- Dry contact relay for integration with Aircraft Detection Lighting System (ADLS) interface
- Patented Fresnel optics to minimize ground scatter
- Red and infrared (IR) beacon LEDs for compliance with FAA AC150/5345-43J and low power consumption
- Modbus RTU Serial RS-485 monitoring capability
- 4 dry contact relays (beacon, marker and photodiode alarms and MODE status)
- Field configurable flash rate for 20/30 fpm or steady operation
- Photodiode for mode change
- Impact-resistant polycarbonate enclosure

## System Options

- Solar power plant to match site insolation
- Powder-coated aluminum enclosure
- SNMP monitoring through FTM 190

## Warranty

- 5-year parts warranty



A1 configuration



A0 configuration

# FTS 371 SMART for MET Towers

SPECIFICATIONS	
Regulatory	FAA AC 150/5345-43J: L-864, L-885 and L-810
	ICAO Annex 14: Medium Intensity Types B and C and Low Intensity Type B (7th edition)
	Transport Canada CAR 621.19: CL-864 and CL-810
	DGAC Mexico: L-864 and L-810
	CE
Input Voltage	85-265 VAC at 50/60 Hz 12-48 VDC ± 10% (12 VDC for markers only)
FH Aerodynamic Wind Area	99.1 in <sup>2</sup> (0.06 m <sup>2</sup> )
Protection Rating	IP66, NEMA 4X

POWER CONSUMPTION (WATTS)				
		20 fpm	30 fpm	Steady
FTC 371	AC	3.8	3.8	3.8
	DC	1.3	1.3	1.3
FH 371	AC	4.0	5.3	30
	DC	4.0	5.3	30
Marker 371 (Single L-810)	DC	-	0.5 0.8 IR	2.5 3.9 IR
OL2 (Double L-810)	DC	-	1.0 1.6 IR	5.0 7.8 IR

DIMENSIONS		WEIGHT	
Polycarbonate Controller	10" x 8" x 6" (254 x 203.2 x 155.4 mm)	AC	5.6 lbs. (2.54 kg)
		DC	4.9 lbs. (2.22 kg)
Aluminum Controller	16.1" x 10.5" x 4.9" (408.9 x 266.7 x 124.5 mm)	AC	9.5 lbs. (4.3 kg)
		DC	8.8 lbs. (4 kg)
		(-) 24 VDC	10.7 lbs. (4.8 kg)
		(-) 48 VDC	10.7 lbs. (4.8 kg)
Flashhead	15.75" dia. x 7.5" (400 dia. x 190.5 mm)	AC/DC	25.85 lbs. (11.7 kg)
Marker (Single L-810)	9" x 2.75" x 2.13" (228.6 x 69.9 x 54.1 mm)	DC	1.6 lbs. (0.7 kg)
OL2 (Double L-810)	11.0" x 5.0" x 8.75" (279.4 x 127 x 222.25 mm)	DC	5.40 lbs. (2.45 kg)

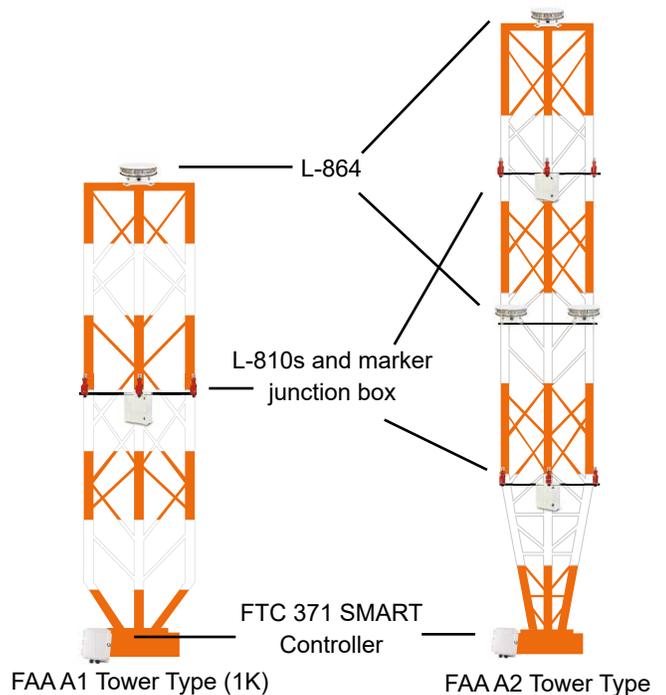
## FAA METEOROLOGICAL EVALUATION TOWER LIGHTING

### Voluntary marking of METs less than 200' feet (61 m) AGL:

- METs should be painted with alternate bands of aviation orange and white paint.
- High-visibility sleeves be installed on the MET's outer guy wires. One sleeve on each guy wire as close to the anchor point as possible, but well above the crop or vegetation canopy.
- A second high-visibility sleeve should be installed on the same outer guy wires midway between the location of the lower sleeve and the upper attachment point of the guy wire to the MET.

### Light painted METs taller than 200' (61 m) AGL as A-type towers:

- **FAA AC 70/7460-1M Tower Type A1:** 150-300' including appurtenances, marked with 1 red/infrared L-864 medium intensity beacon and 2 or more single L-810 red/infrared marker lights configured to flash in sync with the L-864 at 30 fpm for night
- **FAA AC 70/7460-1M Tower Type A2:** 350-700' including any appurtenances with 3 L-864 red/infrared medium intensity beacons at 30 fpm
- **FAA AC 70/7460-1L Tower Type A1:** 150-300' including appurtenances, marked with 1 L-864 medium intensity beacon and 2 or more single L-810 marker lights configured to flash in sync with the L-864 at 30 fpm for night
- **FAA AC 70/7460-1L Tower Type A2:** 350-700' including any appurtenances with 3 L-864 red medium intensity beacons at 30 fpm
- **FAA AC 70/7460-1K Tower Type A1:** 150-300' including appurtenances, marked with 1 L-864 medium intensity beacon and 2 or more L-810 marker lights for night
- **FAA AC 70/7460-1K Tower Type A2:** 350-700' including any appurtenances with 3 L-864 red medium intensity beacons and 6 L-810 marker lights (8 L-810 marker lights if square)



# FLASH TECHNOLOGY

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