

Model GEO-FT / PM

FRANGIBLE TOWERS & POLES

AWOS & METEOROLOGICAL MAST



Airport Weather Observation System Towers and Masts in Compliance for Full Impact Testing with:

- ICAO guidelines Aerodrome Design Manual Part-6, chapter 5
- US Department of Transportation, FAA Advisory Circular No 150/5345-45C, April 2007



METEO DATA for GEO-AWOS
Datalogger with Integrated Comms
(3G / GPRS, Modbus, Line, Radio or Satellite)

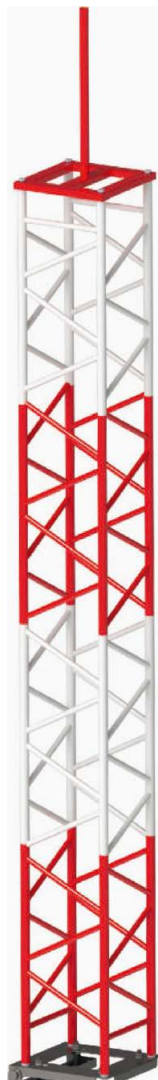
Models & Accessories



10 METER
AWOS TOWER
GEO-FT10/CH



10 METER
AWOS TOWER
GEO-FT10/BH



6 METER
AWOS TOWER
GEO-FT06/BH



LED
OBSTRUCTION LIGHT
SINGLE LAMP OL 201



ENCLOSURE MOUNTING
EM 522 (SET OF 2)



LED
OBSTRUCTION LIGHT
DUAL LAMP OL 202



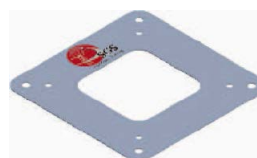
CENTER HINGE
(ALUMINUM CASTING)



STAINLESS STEEL
BASE HINGE IS316



SENSOR MOUNTING ARM
SM 120



FOUNDATION PLATE
FT 500



SET OF
FOUNDATION BOLTS
(4 NOS.)



CROSS ARM SET
CA 180

SAFE & STRONG

GEONICA offers a complete line of frangible towers, masts and poles for hoisting weather equipment (AWOS), approach lights tower, glide path mast, etc for airports. Both lattice and pole type frangible structures are manufactured for various airport applications. The towers and masts are made of fibre glass composites and resins to give frangibility in the products for strength and durability against high wind & jet blast.

Full impact testing was carried in compliance with U.S. Department of Transportation Federal Aviation Administration (FAA), advisory circular No 150/5345 45c, section 3.9 and 4.2.5 and International Civil Aviation Organization (ICAO) doc 9157 An/901 part 6, subsections 4.9.20, 4.9.21, and 4.9.22.



Successfully tested at PMG Technologies in Blainville, Quebec Canada in presence of Intertek FAA approved Test Inspection Agency



Successful Frangibility Crash Tested at Narnaul Airport in India

FEATURES

- Strictly compliance of frangibility to ICAO & FAA guidelines
- Follow all safety regulations
- Tested under third party supervision
- Corrosion-free tower and accessories
- UV- resistant PU paint with 3-year warranty
- 5-Year manufacturing defect warranty on complete tower
- No electromagnetic interference
- Facility for customization
- Prompt deliveries
- Assure durability
- Light weight
- All standard instruments mountings available

STANDARD PRODUCTS

AWOS lattice tower

- 6 meter tower AWOS
- 10 meter with base hinge
- 10 meter with middle hinge

Wind Sock Mast

- 5 meter mast with external lightning
- 10 meter mast with external lightning

2 meter visibility sensor pole

3 meter vigilance camera pole

CUSTOMIZED PRODUCTS

- Camera mounting towers
- Frangible fencing
- Mounting for specific sensors
- Tailor made enclosures and mounting
- Customized flood light poles and towers

ORDER DETAILS

DESCRIPTION	SPECIFICATIONS	ORDER CODE
6 meter Lattice Tower	5 meter frangible lattice tower, 1 meter top mounting assembly, Stainless Steel bottom hinge base plate, set of 4 foundation bolts, colour aviation red & white.	GEO-FT06/BH
10 meter Lattice Tower with base hinge	5.0 meter bottom frangible lattice tower, 4.0 meter top lattice tower, 1 meter top mounting assembly, fixed centre assembly, Stainless Steel bottom hinge base plate, Set of 4 foundation bolts, colour aviation red&white.	GEO-FT10/BH
10 meter Lattice Tower with centre hinge	5.0 meter bottom frangible lattice tower, 4.0 meter top lattice tower, 1 meter top mounting assembly, centre hinge assembly with accessories, hinge rope set, set of 4 foundation bolts, Stainless Steel bottom hinge base plate, colour aviation red & white.	GEO-FT10/CH
Frangible Pole for Meteorological Sensors	Frangible pole of variable length, bottom base plate, set of foundation bolts, colour aviation red & white.	GEO-PM02/BP

STANDARD ACCESSORIES

Foundation Template	Metallic foundation template	FT 500
Enclosure Mounting	Stainless Steel universal mounting plates (Set of 2) mounting bracket and SS Bolts set.	EM 522
Cross Arm	1.8 meter cross arm with vertical sensor mounting assembly	CA 180
Sensor Mounting Arm	1.2 meter sensor mounting arm with accessories	SM 120
Lightning Arrester Kit	75 cm Copper rod with spool, 50 sq mm 13 meter Copper earthing wire, connecting thimbles, 2 meter ground copper rod/strip	LA 102
Obstruction Light Single Lamp	LED obstruction light single lamp, Complaint to ICAO (Aerodromes Annex 14) and FAA - 180, Aviation Red color, Selectable flashing rate, AC 110 ~ 220V, Auto light sensing on/off	OL 201
Obstruction Light Dual Lamp	LED obstruction light dual lamp, Complaint to ICAO (Aerodromes Annex 14) and FAA - 180, Aviation Red color, Selectable flashing rate, AC 110 ~ 220V, Auto light sensing on/off	OL 202
Packaging	Tailored made packing	TP 901



COMPLIANCE

- Compliance with FAA AC 150/5345-45C and Compliance with ICAO guidelines Aerodrome Design Material Part-6 Frangibility Doc 9157 First Edition-2006 chapter 5
- Wind load deflection test
- Salt Spray Test as per MIL-STD-810F & ISO 9227:2017
- Temperature Resistance Test -35°C to +55°C
- Flammability Test IS 6746 - 1994
- Di-Electric Strength Test ASTM D 149:2009
- UV Resistance Test ASTM G 154:2016/IS-14887
- Tensile Strength Test ASTM D638
- Flexural Strength Test ASTM D790
- Flame Spread & Smoke develop Index test ASTM E84

CERTIFICATION

Third party full crash test certificate as per compliance far full impact testing with ICAO guidelines Aerodrome design manual Part-6, chapter 5 and US department of transportation, FAA Advisory circular No 150/5345, April 2007