

TAA-101S

Sealed Airborne Antenna Actuator



> Applications

- Aerial Surveillance and Pursuits
- Disaster Surveys
- Observe Motorcades
- Traffic Reports
- Parades
- News and Sporting Events

> Features

- Deploys below Craft while in Flight
- Sealed Protection against Dust and Debris
- Weatherproof
- Low Cost
- Light Weight
- 360° Azimuth Coverage
- Quick Installation
- Transmit and Receive Capability
- Stows for Landing
- Fits Existing BMS Skid Mounts and Wiring Harnesses
- Ready for Left or Right Side Skid Mounting

> Performance

The popular TAA-101 has been improved! The TAA-101S has been designed to perform flawlessly in harsh conditions. This sealed actuator prevents ingress of dust, water, and debris.

The actuator is skid mounted (or can be fixed to the belly of the aircraft) and accepts an omnidirectional antenna that provides 360° of azimuth coverage.

The unit comes standard with breakaway release mechanisms to assure safety if the helicopter lands with the antenna in the deployed mode. Further, a safety wire prevents it from dropping off should the breakaway safety feature activate.

This system can be used with analog or digital microwave transmit systems such as a BMT75/85 Series Transmitter or the Heli-Coder II System.



Shown in stored position with omni antenna installed

Environmental	
Operating Temperature	-20°C to +55°C
Humidity	Up to 100% RH non-condensing
Power	
Voltage Input	28 ± 4 VDC
Power Consumption	1 A (when deploying or stowing)
Mechanical	
Dimensions	Actuator: 9" x 5" x 2" (22.86 x 12.7 x 5.08 cm) Skid mount: 9" x 3.5" x 4" (22.86 x 8.89 x 10.16 cm) BMA-6-O: 2.5" diameter x 20" (6.35 x 50.8 cm)
Weight: Actuator	6 lbs
Weight: Options	TAA-SM (x) Skid mount: 2 lbs BMA-6-O; Omni-directional antenna: 1 lb

Antenna Options	
Frequency	Models available from 1.7-15 GHz in bands
Polarization	Vertical or RHC
Gain	5-6 dBi (various antenna options available)
AZ Beamwidth	360°
EL Beamwidth	Varies by antenna
Return Loss	≥ 14 dB Typical

Control Panel Options			
Options	HCP-100	HCP-50	TAA-101-UDB
Size	5.75" x 3" x 2.5" (14.6 x 7.62 x 6.35 cm)	5.75" x 1.5" x 3.06" (14.6 x 3.81 x 7.77 cm)	
Weight	1 lb (.45 kg)	1 lb (.45 kg)	

System Options	
Up/Down control box for stand-alone actuator control	
Highlift kit for rough terrain	
BMT75/85 with heatsink for analog transmission or Heli-Coder II System for digital COFDM transmission	
TAA-CTM, cross-tube mount (pictured)	
Additional receive antenna for relay operation	
Belly mount for aircraft with retractable gear	

