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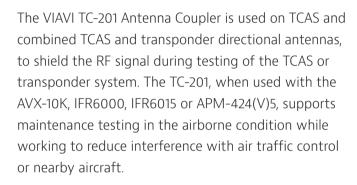
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### TCAS/Transponder Antenna Couplers

A combined TCAS and transponder directional antenna coupler for the avionics maintenance industry.







#### **Features**

- Accommodates both phase and amplitude type antennas
- Reliable, FAR Part 43, Appendix F, ERP and MTL testing in high multi-path environments
- Provides >20 dB of isolation
- Provides shielding for all transponder and ADS-B performance testing
- Lower antenna adjustable support pole
- Perform four-quadrant testing by simply rotating the bearing selector dial
- TCAS bearing accuracy < 10 degrees

#### **Benefits**

- Reduces interference with air traffic control and nearby aircraft
- High level of measurement repeatability is achieved, saving test time
- Tests all quadrants of directional TCAS or TCAS/ Transponder antennas
- No need to achieve line-of-sight with the antenna under test
- Eliminates the need for DD-1494 Frequency Authorization
- Universal design allows coupler to be used with any suitable TCAS/transponder test set

# **General Specification**

Frequency	1030 MHz, 1090 MHz	
Return Loss	> 9 dB	
Insertion Loss	15.5 dB typical	
Repeatability	< 1 dB	
Isolation	> 20 dB	
Bearing Accuracy	±18° max, <±10° typical	
Connector	TNC female	

# **Physical Characteristics**

Size				
Coupler only	19 in. diameter (48.26 cm)			
Kit with transit case	24.81 x 24.98 x 14.15 in.			
NIL WILLI LIGHSIL CASE	(63 x 63.45 x 35.94 cm)			
Weight				
Coupler only	11 lbs. (4.9 kg)			
Kit with transit case	41 lbs. (18.6 kg)			
Accommodates Antenna Dimensions				
Diameter	9.25" max			
Oval Dimension	11" max			
Antenna Height	2" max			

# **Supported Antennas**

Supported Equipment	TC-201A	TC-201B
		•
Collins TSA-4100 and Similar		
Honeywell/ACSS AT-910 and Similar		_
Minimum Recommended Fuselage Size	110"	92"

## **Order Information**

## **Versions and Options**

		TC-201A Single Coupler Kit (140889)	TC-201A Dual Coupler Kit (22164588)	TC-201B Single Coupler Kit (22163082)
Item Number	Description	Quantity		
22130799	TC-201A Coupler	1	2	_
22163085	TC-201B Coupler	_	_	1
142743	Transit Case, Single	1	_	1
22164587	Transit Case, Dual		1	_
92863	Attenuator, 30 dB	1	2	1
142742	Extension Pole Kit	1	1	1
142839	Coax Cable TNC, 50'	1	2	1
90177	Monopole Extension	Optional	Optional	Optional



