

Antenna Positioner 581819 (9506-00)

FESTO

LabVolt Series

Datasheet



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General Description

The Antenna Positioner consists of the mast for the receiving antenna (antenna under test), a drive motor, a signal detector, a variable attenuator, and a shaft encoder. The drive motor is used to rotate the mast while the rotation is controlled by the LVDAM-ANT software via the Data Acquisition Interface. An SMA connector, mounted on the base of the mast, allows a connection to be made between the receiving antenna and the signal detector. This detector provides a signal whose voltage depends on the level of the RF signal received. This signal is available on a BNC connector for connection to the Data Acquisition Interface.

The variable attenuator allows adjustments to be made to the sensitivity of the receiving system according to the strength of the received signal, in order to prevent system saturation. This attenuator is controlled by the LVDAM-ANT software via the Data Acquisition Interface. The shaft encoder is coupled with the shaft of the drive motor and provides signals to monitor the rotation of the mast. Two multi-pin connectors on the Antenna Positioner allow connection to the Data Acquisition Interface / Power Supply.

Specifications

Parameter	Value
Unregulated DC Power Requirement	+25 V – 90 mA, -25 V – 90 mA, +11 V – 90 mA
Drive Motor Power Input	24 V – 1.25 A – AC
RF Detector	
Frequency Range	1-15 GHz
Input Impedance	50 Ω
Maximum Input Power	100 mW, CW
Signal Amplifier Input	
Impedance	10 k Ω
Center Frequency	1 kHz
Signal Output	
Voltage Range	0 to +10 V
Center Frequency	600 Ω
Range of rotation	
Range per acquisition	0° to 360°
Total range	0° to infinity (rotary joint: no reel back required)
Physical Characteristics	
Dimensions (H x W x D)	260 x 385 x 250 mm (10.2 x 15.2 x 9.8 in)
Net Weight	10.2 kg (22.4 lb)

Reflecting the commitment of Festo Didactic to high quality standards in product, design, development, production, installation, and service, our manufacturing and distribution facility has received the ISO 9001 certification.

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