

Wulfsberg Series III™: DFS 43A Direction Finder System



PRODUCT DESCRIPTION

The DFS 43A Automatic Direction Finder is an all-digital system designed to provide ADF navigation reception from non-directional beacons (NDB), locator outer markers (LOM), and commercial AM broadcast stations. Through microprocessor-controlled signal processing and a self-calibration routine, the DFS 43A system ensures the accuracy of displayed ADF information. The DF-431B unit can be tuned via ARINC 429 digital data bus, individual control units, the Wulfsberg Series III RMS 555 Radio Management System, or with Flight Management Systems. The AT-434A combined sense/loop antenna is designed specifically for use with the DF-431B receiver. Streamlined in shape to reduce drag, the antenna provides superior signal reception throughout all modes of DFS 43A system operation.

Features

- Left/Right Steering Guidance to/from NDB
- Autopilot Interface
- Half or Whole kHz Channel Spacing
- Specially Designed Loop/Sense Antenna
- Optional Stand-alone Control Head (CDF-552)
- Continuous Self-test
- Built-in Diagnostics
- ARINC 429 Digital Data Bus
- Improved Station Overfly Sensitivity

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Specifications

FAA TSO:	C41c
Power Requirements	27.5 Vdc Aircraft Power (+/- 20%)
Current Requirements	0.6 Amp
Weight	5.64 lbs. (2.56 kg)
Temperature	-67°F to 158°F (-55°C to +70°C)
Altitude	55,000 ft (16,764 m)
Frequency Range	190.0-1860 kHz and 2181-2183 kHz (.5 kHz Spacing)
Physical Dimensions	4.10 x 4.00 x 13.33 in. (104.14 x 101.6 x 338.58 mm)

Available Configurations (contact Wulfsberg for alternate configurations)

Configuration Variation	Description
066-1105-00	DF-431B ADF 10mW Audio
066-1105-01	DF-431B ADF 40mW Audio
066-1105-10	DF-431B ADF 40mW Audio, HIRF/Lightning
071-1348-00	AT-434A Antenna ADF
071-1348-10	AT-434A Antenna ADF HF REJECT
071-1348-20	AT-434A Antenna ADF HIRF/Lightning
187-01446-0000	Gasket, AT-434A, 1/8" Thick
187-01446-0002	Gasket, AT-434A, 1/4" Thick
187-01446-0003	Gasket, AT-434A, 1/8" Thick, Conductive
187-01446-0004	Gasket, AT-434A, 1/4" Thick, Conductive

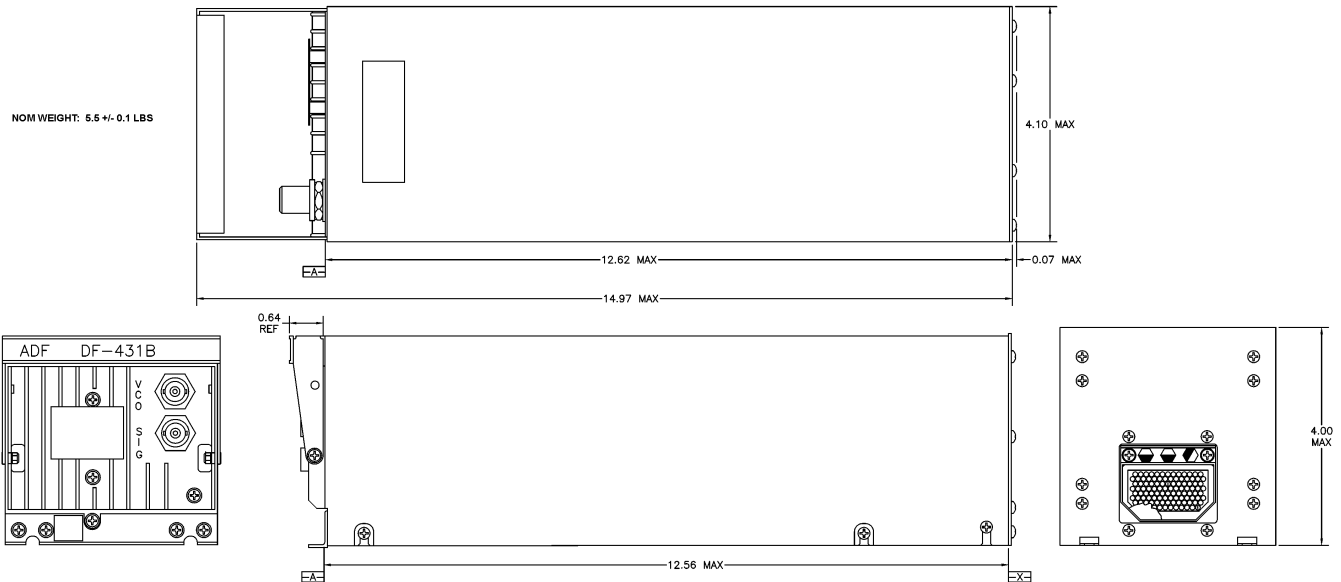


Figure 17. DF-431B Receiver Outline Drawing
Portions of Dwg No. 300-04238-0000