



Flex® Digital Counter Drum Encoding Altimeter  
MD23-215



# FLEX®

## Digital Counter Drum Encoding Altimeter

Manufactured by Mid-Continent Instruments and Avionics

2-INCH COUNTER DRUM ENCODING ALTIMETER  
WITH A VARIETY OF USER-SELECTABLE FEATURES

Part of the Flex® product line, the MD23-215 features smooth, high-resolution graphics and operating range of up to 55,000 feet. It offers user-selectable vertical speed indication and – for the first time – user-selectable 6-second vertical trend. SSEC customization and Night Vision Imaging System (NVIS) compatible versions are available.

### User-selectable

Vertical speed indicator (ON/OFF)  
6-second vertical trend (ON/OFF)  
Altitude target (ON/OFF)  
Approach Minimums alert (ON/OFF)  
Barometric setting  
(millibars, hectopascals or inches of mercury)

- Operating range up to 55,000 feet
- Configurable altitude units (feet or meters)
- Baro setting synchronized via ARINC 429
- Encoding outputs via ARINC 429 and Gray Code
- Standard 2-inch size
- Lightweight – 0.4 lbs
- Simple user interface – Single, push-and-turn control knob
- Daylight readable LCD and smooth, high-resolution graphics
- Manual external lighting control or built-in photocell for automatic dimming
- SSEC curve customized to match primary flight displays (available)
- Night Vision Imaging System (NVIS) compatible (available)
- TSO certified (Design Assurance Level A)
- Designed and built in Wichita, Kansas, USA
- Two-year limited warranty



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## SPECIFICATIONS

Power Input	10–32 VDC 0.14A @ 28 VDC; 4 watts nominal	
Data Input	ARINC 429	Low or high speed; Labels 234, 235
	Pressure	Absolute/Static (Quick Disconnect)
Data Output	ARINC 429	Low or high speed; Labels 203, 204, 212, 217, 234, 235 Gray Code
Operating Range	-1,500 to +55,000 feet	
Units of Measure	Altitude	Feet or meters
	Barometric Setting	Millibars (mb), hectopascals (hPa) or inches of mercury (in.Hg)
Lighting	5, 14, or 28 VDC external control or internal photocell for automatic dimming	
Weight	0.4 lbs (0.17 kg)	
Mounting	Rear panel mounted, (4) #6–32 screws, 2.25-inch round bezel	
Dimensions	2.43 x 2.43 x 1.0 inches (61.7 x 61.7 x 25.4 millimeters)	
Mating Connector	P/N 9019162-1	26-pin, D-Sub electrical connector (Quick Disconnect)
	P/N 9019162-2	Pneumatic fitting (Quick Disconnect)
Certification	FAA TSO certified to C10c, C106, C113b RTCA DO-160G qualified RTCA DO-178C qualified, Design Assurance Level (DAL) A	
Rights	U.S. Patent 11,048,389	

