



MD222-406



## MD222 Series

### 2-inch Course Deviation Indicator

Manufactured by Mid-Continent Instruments and Avionics

THE MD222 SERIES IS THE ONLY 2-INCH COURSE DEVIATION INDICATOR WITH GLIDESLOPE.

## INNOVATIVE SAFETY FEATURE! RECTILINEAR POINTERS MOVE OUT OF VIEW WITH AN INVALID SIGNAL.

The MD222 Series 2-inch Course Deviation Indicator is an affordable solution for tight panel installations. Each unit features new-generation rectilinear meter movements for more accurate readings, a course selector and resolver output.

Mid-Continent's MD222 Series is designed to last, utilizing precision-fit metal gears, ball bearings and a glass lens.

- Compact 2-inch size saves panel space
- Precision replacement for older navigation indicators
- Ideal for applications where space is limited or as a backup for glass panel displays
- Rectilinear meter movements allow for more accurate readings
- LED backlighting provides increased reliability and longer life
- Built-in NAV, GPS and VLOC or BC annunciators
- Rugged construction includes ball bearings in critical areas
- True course resolver output (1 volt, 30 Hz)
- Quality Mil-Spec connectors
- FAA TSO certified for use with most GPS and VOR systems
- Designed and built in Wichita, Kansas, USA
- One-year limited warranty

# MD222 Series

## 2-inch Course Deviation Indicator

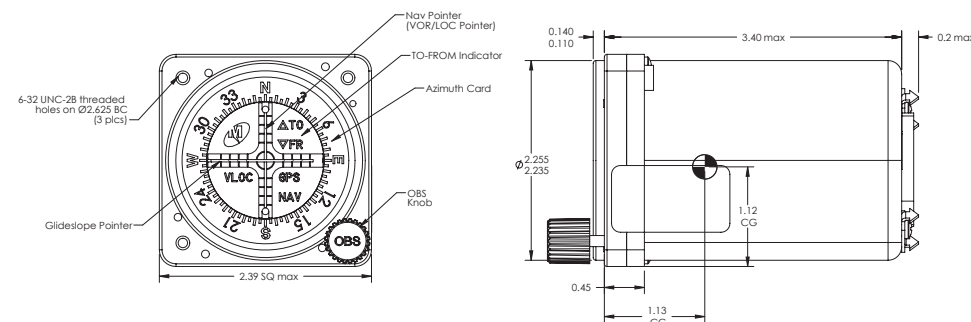
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### SPECIFICATIONS

Power Input	Accepts 11 to 32 volts DC, 0.3A max		
Lighting	Internal white LED		
	Lighting control voltage is selectable for 5, 14 or 28 VDC		
Weight	0.6 lbs		
Certification	FAA TSO-C34e, -C36e, -C40c		
	RTCA DO-192, -195, -196, -160E		
Length	3.5 inches		
Temperature Range	-30 °C to +55 °C (-22 °F to 130 °F)		
Humidity	95% non-condensing		
Altitude	-15,000 to +55,000 ft		
Cover Glass	Special HEA (anti-reflective) coating		
Connector	25-pin male D-Sub (MD25M3S0V50)		
Mating Connector	25-pin female D-Sub (MD25F3R4000 or equivalent)		
Color	Index marks, text		White
	Glideslope, navigational pointers		White
	Bezel, dial background		Black
Operational Shock	Rigid mounting, 6G operational, 15G crash safety		

	Normal	Maximum Operating Temperature Range
NAV/GS Deviation	Input impedance	1k ohms $\pm$ 10%
	Deflection sensitivity*	150 mV $\pm$ 10%
Valid NAV/GS Meter	Input impedance	1k ohms $\pm$ 10%
	Meter in view*	260 mV $\pm$ 10%
To/From Annunciation	Input impedance	200 ohms $\pm$ 10%
	To or From in view*	$\pm$ 40 mV $\pm$ 15%
OBS Resolver	Zeroed at	300° $\pm$ 1° ORZ
		300° $\pm$ 2.5°
* Input Range	Common mode/reference 1 to 5 volts for signal inputs	



PART NUMBER	CONFIGURATION
MD222-406	2-inch, (NAV, GPS, VLOC) LED lighting
MD222-506	2-inch, (NAV, GPS, BC) LED lighting