



# 2-INCH CDI COURSE DEVIATION INDICATOR

## MD222 SERIES

MANUFACTURED BY MID-CONTINENT INSTRUMENTS



MD222-406



MD222-506

- Compact 2 1/4 inch size saves panel space
- Innovative Safety Feature – pointers move out of view with invalid signal
- Precision replacement for older navigation indicators
- Use in helicopters, where space is limited, or as a backup for glass panel displays
- Rectilinear meter movements allow for more accurate readings
- LED backlighting looks great and provides increased reliability
- Built-in annunciations for NAV, GPS, and VLOC or BC
- NVG compatible lighting
- FAA TSO approved for use with most GPS and VOR systems
- Rugged construction includes ball bearings in critical areas
- True course resolver output (1 volt, 30 Hz)
- Quality Mil-Spec connectors included
- Designed and built in Wichita, Kansas, USA
- One year limited warranty

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9400 E. 34th Street North  
Wichita, KS 67226 USA  
Tel 800-821-1212 316-630-0101  
Fax 316-630-0723  
mci@mcico.com



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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 (NVG compatible)		
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 ft. 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 and text:	white	
	Dial background:	black	
	Glideslope & navigational pointers:	white	
	Bezel:	black	
Operational Shock:	Rigid mounting, 6G operational, 15G crash safety		
Input Range:	Common mode voltage range is 1V to 5V for deviation signal inputs		
NAV/GS Deviation:		Normal	Max Operating Temp Range
	Input impedance	1k ohms ± 10%	1k ohms ± 25%
	Deflection sensitivity	150 mV ± 10%	150 mV ± 25%
Valid NAV/GS Meter:	Input impedance	1k ohms ± 10%	1k ohms ± 25%
	Meter in view	260 mV ± 10%	260 mV ± 25%
To/From Annunciation:	Input impedance	200 ohms ± 10%	200 ohms ± 25%
	To or From in view	± 40 mV ± 15%	± 40 mV ± 25%
OBS Resolver:	Zeroed at	300° ± 1° ORZ	300° ± 2.5°



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