

**TARGETPOINT**  
DIGITAL MAGNETIC COMPASS



## DROP-IN *American-made* DMC REPLACEMENT.



Introducing **TargetPoint DMC 600**,  
the first US-made, American-supported,  
STORM-qualified digital magnetic  
compass — an ideal replacement for  
existing DMCs.

PNI's TargetPoint DMC 600 delivers unbeatable accuracy and reliability in the harshest conditions. It is a key enabler in situational awareness, threat detection and neutralization. TargetPoint combines PNI's patented magneto-inductive sensors and measurement circuitry with a 3-axis MEMS accelerometer for unparalleled cost effectiveness and performance.

Qualified as a drop-in replacement in the STORM program, TargetPoint is an ideal choice for far target locators and laser range finders that require real-world reliability and performance.



## Same specs. Made and supported in the USA.

TargetPoint provides the same performance as non-US DMCs, and is a drop-in replacement in the STORM-mLRF. The TargetPoint DMC module is extensively tested to military standards, including weapon-shock, to ensure specifications are consistently met.

## From an established US small business with a proven record.

PNI Sensor Corporation has been a reliable supplier of compass modules to the military market for over 20 years.

### Performance Specifications<sup>1</sup>

Azimuth (Heading) Accuracy	$\pm 0.5^\circ$
Elevation (Pitch) & Bank (Roll) Accuracy	$\pm 0.2^\circ$
Angular Resolution	$0.01^\circ$
Magnetic Residual Error	$0.06 \mu\text{T rms}$
Field Calibrated Range	$\pm 150 \mu\text{T}$

### I/O Characteristics

Data Interface	RS 232 subset (CMOS-level)
Communication Protocol	ASCII
Reporting Rate	Continuous Measurement 1, 2, 5, 10, and 20 Hz
	Single Measurement 10 Hz maximum

### Power Requirements

Supply Voltage	4.75 to 5.25 VDC
Average Current Draw @ 10 Hz	225 mW max.

### Environmental Testing

Operating Temperature	$-40^\circ\text{C}$ to $+70^\circ\text{C}$ per MIL-STD-810G, Method 501.5 and 502.5
Storage (non-operational) Temperature	$-57^\circ\text{C}$ to $+85^\circ\text{C}$ per MIL-STD-810G, Methods 501.5 and 502.5
Temp. Shock (non-operational)	$-57^\circ\text{C}$ to $+71^\circ\text{C}$ . $15^\circ\text{C/minute}$ . Stabilized for 75 minutes at extremes. 3 cycles.
Shock (non-operational)	5000 shots while mounted in STORM rangefinder system on M4 rifle
Vibration (non-operational)	MIL-STD-810G, Method 514.5, Procedure I — General Vibration. Random vibration per Annex C — Figure 514.5C-17, with duration of $\geq 1$ hour on each of 3 axes.

### Mechanical Characteristics

Dimensions (L x W x H)	1.30" x 1.22" x 0.53" (33 x 31 x 13.5 mm)
Max Weight	20 gm
Mounting Options	Level or $90^\circ$ side-mounted

1. Specifications are preliminary and subject to change.

For ordering information and most current specifications, please visit [www.pnicorp.com](http://www.pnicorp.com)

	3-AXIS
	HARD & SOFT-IRON CORRECTION
	LOW POWER
	HIGH RESOLUTION/ ACCURACY
	WEAPON-SHOCK TESTED
	MODULE

PNI SENSOR CORPORATION is an established, successful leader in magnetometer technology, serving such clients as the US military and GM, Chrysler and Ford in the automotive industry. PNI's team of physicists, engineers and researchers has unparalleled expertise in creating the highest performance magnetic sensor on the market. PNI applies this patented magnetometer technology to create highly accurate, reliable and low power compass modules.

Many of today's leading companies are using PNI technology in their marquee products and across a wide spectrum of applications, including robotics, targeting, surveying, and oceanography.

