

# Digital Magnetic compass DMC



## DMC001 Series

DMC001 compass module is a 3-axis digital compass solution with a unique gyro stabilization to reduce effects of magnetic disturbances. Three magneto-resistive sensors, three MEMs accelerometers and a MEMS yaw rate gyro are combined to provide compass heading as well as pitch and roll angles.

### Key features:

- High accuracy 0.5° typical heading accuracy, 0.15° resolution
- Update rate to 25Hz
- Compact Solution
- Hard and soft-iron compensation routines
- Magnetic anomaly detection
- Wide working temperature range

### Specifications:

	DMC001
Accuracy	0,5°
Resolution	0,1°
Repeatability	0,2°
Roll range	Default orientation X axis ±180°
Pitch range	Default orientation Y axis ±80°
Accuracy	Roll ±30°, Pitch ±30°
Roll repeatability	±80°
Pitch repeatability	±80°
Resolution	0,2°
Reading samples	25/Sec.
Communication	RS232
Waterproof	IP66
Relative humidity	95% not condensing
Working temperature	-40/85°C.
Power demand	5vDC. / 0,2W.
Size	10x8x3cms.

Tanz Security reserves the right to change products or specifications without notice.