



N TOZOGO BERNINC.

Position and Attitude Sensor

The VSAS-T1G sensor incorporates vibration

gyroscopes, accelerometers and magnetic

compass and outputs information on azimuth

and pitch & roll angles.

An optional high performance GPS provides position data.

- Attitude (pitch, roll) angle output, minimal azimuth drift
- Wide dynamic measurement range, compact and lightweight design)
- Integrated magnetic compass
- Positional updates every 250ms (4Hz) (with GPS)
- Positional accuracy within several meters (with GPS)
- RS232C digital signal output

Output		Range	Accuracy (with GPS)	Accuracy	
e	Azimuth	±180°	10° rms (room temperature)	10° rms (room temperature)	
ude Angl		$(\pm \pi \text{ rad})$			
	Pitch	±90°	5° rms (room temperature)	10° rms (room temperature)	
		$(\pm \pi / 2 \text{ rad})$	±30° or less	±30° or less	
tit	Roll	±180°	5° rms (room temperature)	10° rms (room temperature)	
A		$(\pm \pi \text{ rad})$	$\pm 30^\circ$ or less	±30° or less	
Angular rate		±300° /s	±3° /s ±1% FS	±3° /s ±1% FS	
(X, Y, Z axis)					
Acceleration		± 29.4 m/s ²	$\pm 0.08/s^2 \pm 1\%$ FS	$\pm 0.08/s^2 \pm 1\%$ FS	
		(±3G)			
Magnetic azimuth		±180°	5° rms (room temperature,	5° rms (room temperature,	
	-	$(\pm \pi \text{ rad})$	horizontal condition)	horizontal condition)	
Position (latitude, longitude)			2m (CEP 50%)		

Patent pending

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