



LAND DEFENCE INERTIAL NAVIGATION AND POINTING SYSTEMS

Performance

- High accuracy
- Extreme shock endurance
- Low settling time
- Superior reliability
- Calibration free

Inertial navigation and positioning for:

Land vehicles

Unmanned vehicles

On-board gun stabilization



Based on fiber optic technology, specially designed and produced for any type of land vehicle requesting high precision and reliability in attitude, position and speed calculation.



LOCALIX 120 - 100 - 200

AHRS

Heading accuracy	6 mils RMS
	3 mils RMS
	1.5 mils RMS
Roll/Pitch Accuracy	< 2 mils RMS
	< 2 mils RMS
	< 0.35 mils RMS
Range	Heading 0° ÷ 360° Roll/Pitch ± 90°
Alignment time	< 10 min (full accuracy) < 30 sec (fast alignment stored values) < 5 sec (start-up time)
Available input	VMS, GPS, On Board control and management Calculator
Data Outputs	Attitude (Roll, Pitch, CANT) Heading (Gyro compassing) Speed, Position, System Status Information, BITE information, distance travelled.

INS POSITION ACCURACY

Horizontal position	< 10 m CEP (GPS P(Y))
	0.5% DT CEP (no aiding)
	0.3% DT CEP (VMS only)
	0.4% DT CEP (no aiding)
	0.2% DT CEP (VMS only)
Vertical position	< 10 m EP (GPS P(Y))
	0.4% DT EP (no aiding)
	0.3% DT EP (VMS only)
	0.3% DT EP (no aiding)
	0.2% DT EP (VMS only)
	0.2% DT EP (no aiding)
	0.1% DT EP (VMS only)

DT: Distance Travelled

VMS: Vehicle Measurement Sensor

INTERFACES

Output serial	6 serial lines up to 100 Hz (200 Hz optional)
Input serial	2 serial lines up to 100 Hz (200 Hz optional)
Ethernet LAN	N. 1 available
I/O serial Display	1
I/O type	RS232, RS422, Ethernet, CANBUS, MIL-PRF 71196, Customer Interfaces: GPS - VMS - On-Board Calculator
I/O Protocols	NMEA 0183, MIL-PRF 71196, Customer protocols: GPS - VMS - On-Board Calculator
Input pps or pulse log	N. 2 available
RF Input for internal GPS/Galileo receiver	N. 1 available

ENVIRONMENTAL FEATURES

Operating temperature	- 32° C ÷ 55° C
Storage temperature	- 40° C ÷ 80° C
Power Supply	MIL-STD-1275 rev. B
Sand and dust	MIL-STD-810F (meth. 510.4)
Immersion, fording, rain	MIL-STD-810F (meth. 512.4, II)
Damp	95%
Salt Fog	MIL-STD-810F (meth. 509.4)
Vibrations	MIL-STD-810F (meth. 514.5, cat. 20)
Shock	MIL-STD-810F (meth. 516.5, I)
Electromagnetic interference	MIL-STD-461E
MTBF	> 150.000 hours

POWER SUPPLY

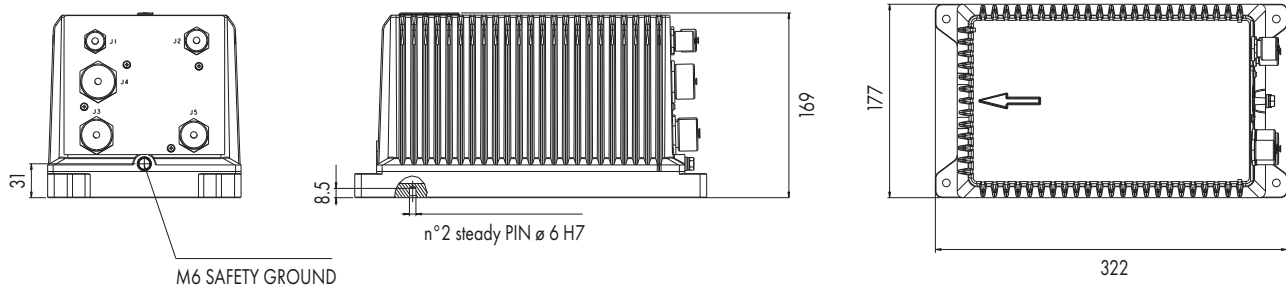
Voltage	24 Vdc (16 Vdc ÷ 32 Vdc)
Power absorption	< 15 W
Protection	Against over-voltage, low voltage and inversion of polarity

OPERATIONAL MODES

Inertial / VMS	Full inertial mode with or without VMS aiding
ZUPT	Zero velocity update status
GPS / VMS	GPS aiding with or without VMS aiding
GPS + ZUPT	GPS aiding with zero velocity update

 NO ITAR Components

dimensions in mm.



Weight: 6.8 Kg.

