SATLAB GEOSOLUTIONS

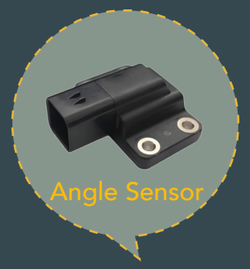
Machine Control Solution

for Earth Construction

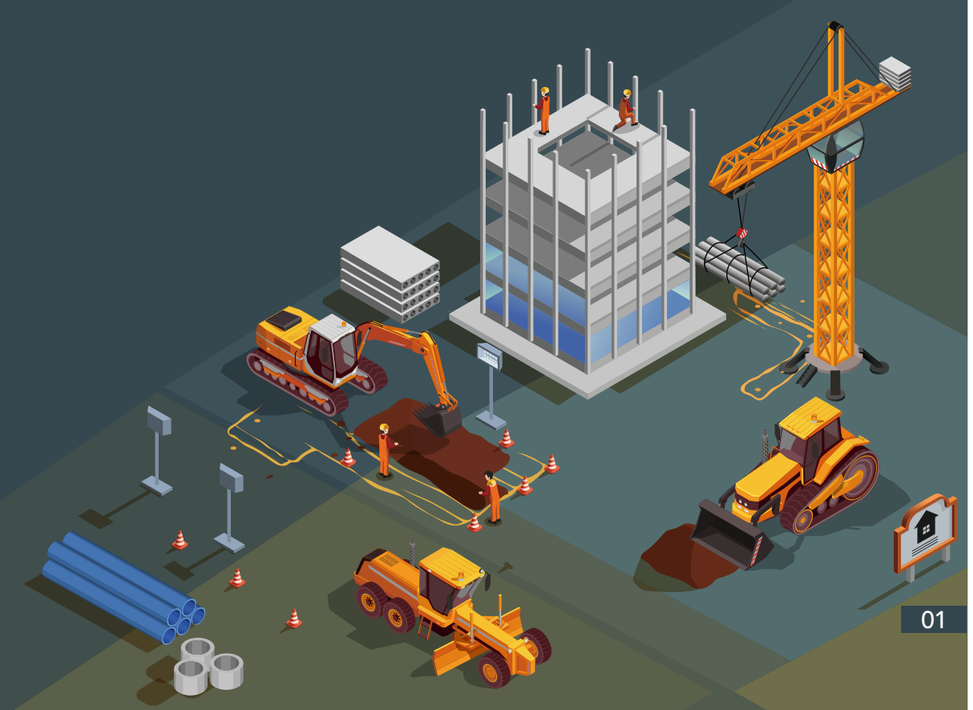
Tablet

Antenna

Receiver



Angle Sensor



Made by Sweden

Industrial Smart Solution

Empower your machines with intelligent control solutions

- Simple and Intuitive Use Interface
- Quick Installation and Setup
- Reliable and Seamless Communication
- Streamlined Workflow

Earth Construction

Streamline Your Workflow

Offering a complete line of high-performance control systems from excavators to pilers and drillers, these intuitive systems are user-friendly and fully customizable to meet users application requirements. The fully digitized equipment is integrated to bring the field to the office, reducing rewords and increasing efficiency and profitability.

With the series of high precision GNSS receivers, angle sensors, compaction sensors and temperature sensors installed in the equipment, the system uses algorithms to solve high-accuracy target coordinates with various types of real-time data to assist and guide operators effectively.

Applications

Machine Control Components

TD122

Compact Engineering Tablet

- Rugged and Compact Vehicle-mount Tablet
- Large 10 inch Anti-glare Touch Screen
- Multiple I/O Ports (RS485, RS232, ETH, CAN, USB)
- IP65 Protection

MC101

Intelligent Management Controller

- Built-in Dual Antenna GNSS Positioning Board
- WiFi/Data Radio/4G Module
- LED Indicator and UPS Power Supply
- TNC Connector

TS121

High Resolution Angular Sensor

- High-precision MEMS Angle Measurement Unit (Up To 0.05° Output Resolution)
- Gyro Automatic Compensation
- Independent Sealing
- Shockproof and Stable

AT-400

High Performance Geodetic Antenna

- Full Constellation Satellite Tracking
- Supports All Working Frequency and L-Band
- IP67 Protection
- Right-handed Circular Polarization (RHCP)

HV122

Highly Reliable Hydraulic Valve

- Universal Connectors
- Fast Current Response
- Integrated Shock/ Anti-cavitation Valve
- Increased Control of Negative Loads

Technical Specifications

TD122 Tablet	System	Android 11.0, Storage 16 GB
	Display	10.1" 5-Point Touch
	Resolution	1024*600 P
	Dimension(W*H*D)	281*181*42 mm
	Weight	1.5 KG
	Power	9-36V DC Input
Machine Receiver	Satellite System	BDS: B1I/B2I/B3I/B1C/B2a/B2b GPS: L1/L2/L5/L6 GLONASS: L1/L2 GALILEO: E1/E5a/E5b/E6 QZSS: L1/L2/L5/L6 SBAS: L1C/A
	RTK(RMS)	Horizontal: 0.8 cm + 1 ppm, Vertical: 1.5 cm + 1 ppm
	Network	LTE 4G, WiFi 802.11 a/b/g/n, 2.4 GHz
	Bluetooth	4.2
	Radio	410-470 MHz, Channel 116, Editable from 100 to 115
	Connector	4x TNC (GNSS, UHF, GSM),1x NANO SIM Card
	Indicator	3x LED (Satellite, Correction, Power)
	Dimension(W*H*D)	220*135*57 mm
	Weight	1.5 KG
	Power	9-36V DC Input
	Protection Level	IP67
	Environment	Operating Temp: -40℃~+75℃, Storage Temp: -40℃~+85℃
TS121 Sensor	Range	Pitch ±90°, Roll ±180°
	Static Accuracy	0.1°
	Dynamic Accuracy	0.5°
	Dimension(W*H*D)	11*8*4 mm, 14*8*4 mm
	Weight	0.4 KG
	Protection Level	IP68
AT400 Antenna	Band	1164 MHz~1300 MHz, 1525 MHz~1615 MHz
	Connector	TNC
	Dimension(W*H*D)	156.2*140*55.5 mm
	Weight	634 g
	Protection Level	IP67

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