



Sensata

Technologies

SENSATA'S SOLUTIONS FOR MOBILE ELEVATING WORK PLATFORMS (MEWPs)

WE HELP ENGINEERS TAKE THEIR DESIGNS TO THE NEXT LEVEL

Our experts work closely with engineers on four continents to make aerial work platforms and other material handling equipment safer and easier to use. Those collaborations have resulted in a host of advanced sensing technologies, including advanced lift control systems, motor controllers and joysticks, as well as stability control, battery management, telematics and other features to meet the latest requirements.



LIFT CONTROL SYSTEMS



MOTOR CONTROLLERS



JOYSTICKS



OPERATIONS AND STABILITY CONTROL



ELECTRIFICATION/BATTERY MANAGEMENT



DIESEL/HYBRID ENGINE



TELEMATICS AND SAFETY

Sensata manufactures and supplies a wide variety of sensors and controllers for safe aerial work platforms, heavily loaded fork-lift trucks and fast narrow aisle vehicles, manned, driverless or partially autonomous. Our products provide accurate and reliable control over movement, stability, telematics, collision avoidance and positioning in order to achieve maximum performance and safety levels.



LIFT CONTROL SYSTEMS



K500 - Slab Scissor Lift

- Direction control switches integrated in the joystick grip
- LCD Display for an easy setting and control
- Support CAN & USB



K600 and K610 - Slab Scissor Lift (Advanced) New

- Next-Gen Scissor Lift Controller with more powerful MCU and large LCD Display
- 3 channels PWM with current feedback and closed-loop control
- 2 Isolated CAN enhance anti-interference performance
- K610 integrates CoDeSys platform for programming controller applications



K120 - Rough Terrain Scissor Lift

- CoDeSys platform and module design
- Visual debug interface and online diagnostic.
- 2 Isolated CAN
- Powerful MCU



K900 - Boom Lift Q4 2023

- Complete kit with PCU + GCU + Panel
- CoDeSys platform
- Visual debug interface and on-line diagnostic
- 7" programming display



MOTOR CONTROLLER



DC Pump M701 Q3 2023

- Rated Current: 320A (2mins), 150A (1hour)
- High efficiency, silent operation
- MOSFET short-circuit protection function



AC Motor (3 in 1) M730 Q3 2023

- Integrated automotive-level design
- Rated Current: 2*200A + 300A(2min), 2*80A+167A(1hour)
- CAN communication

JOYSTICKS



AJ22 Single or Dual axis

- Comply with EN1175
- PLC Functional Safety
- Different grips and gates available



AJ3 Dual axis

- 5-10 million life cycles
- Highly modular designs for customization
- Analog, CAN, PWM outputs



OPERATIONS AND STABILITY CONTROL

Hydraulic Pressure and Load Weight – PTE 7100

- Supports load weight management under ANSI 92
- Measuring range from 0-50 bar to 0-600 bar (0-725 to 0-8700 psi)
- Stainless steel design with hermetic port
- Extreme shock and vibration capabilities
- REACH/RoHS/CE compliant

Chassis Inclination – T Series Inclinometer

- Supports chassis tilt monitoring under ANSI 92
- Dual Axis Measurement Range up to $\pm 60^\circ$
- High resolution and high accuracy
- Analog, CANopen, SSI models

Rotary position sensors - 9360

- Single or Dual (redundant) output
- Ratiometric analog or PWM output
- Protection up to IP67

ELECTRIFICATION AND BATTERIES

Traction, Charging and Battery Protection (Gigavac Contactors)

- High degree of configurability eases system integration
- Hermetically sealed contactors allow higher fault interrupt capability and better thermal performance than "open air" contactors
- Voltage ratings from 12Vdc to 1500Vdc for current carry up to 1000Amps

Battery Management Systems (i-BMS, c-BMS)

- i-BMS: cost effective all-in-one BMS with integrated switches and current sensor up to 140A, 17 – 60 V
- c-BMS: centralized BMS with compact design and flexible current capability up to 1000A, 12 – 100 V
- Parallel pack & battery hot swap support
- Advanced SOC, SOH, SOP, and SOE algorithms for unmatched precision

DIESEL/HYBRID ENGINE

Oil Pressure (6xCP)

- Enhanced accuracy over wide operating range
- Exceptional shake and vibration tolerance
- Overvoltage and reverse polarity protection

Fuel Tank Pressure Switch (20PS)

- Automatic reset
- Hermetically sealed sensor
- Up to 55 Bar

Exhaust Gas Temperature (HTS)

- High temperature sensor 850°C
- Helps reduce emissions
- Protection against overheating

TELEMATICS AND SAFETY

Vehicle Telematics (Xirgo XC4700)

- Ideal for high-value remote assets
- 3-axis accelerometer and motion detector
- Available with 3G, LTE-M, and Cat1 (Global)

PreView® Blind Spot Monitoring Systems

- Rugged, reliable object detection technology designed for industrial environments
- Ability to customize detection zone (range and width) onsite
- Available in-cab LED displays for operator alerts

ABOUT SENSATA TECHNOLOGIES

Sensata Technologies is one of the world's leading suppliers of sensing, electrical protection, control and power management solutions with operations and business centers in twelve countries. Sensata's products improve safety, efficiency and comfort for millions of people every day in automotive, appliance, aircraft, industrial, military, heavy vehicle, heating, air-conditioning and ventilation, data, telecommunications, recreational vehicle and marine applications.