

GOLD

AWARD



- Application
- Advantages
- System

- · Aftermarket telehandler machines with:
 - Fork as main attachment
 - Searcher hook as second attachment
- · Reduced risk of accidents from tipping
- Increased productivity through maximizing the machine's utilization
- Reduction of operator error
- · Monitor for potential misuse with internal data logger

General:

- Option to include Longitudinal Load Moment Indicator / Control (LLMI / LLMC)
- Calculates and displays the machine status according to the selected operation mode and sensor values
- Displays actual and allowable load, boom length, boom angle, load radius & height
- · Audible and visual warning
- Customizable to different machine types in both capacity and machine dimensions
- · System settings are password protected
- · Option to include camera

Service & Diagnostics:

- Integrated data logger tracks machine usage and helps to determine whether a machine has been misused
- · Calibration:
 - Calibration can be done easily by the installer
 - Previous system calibration can be utilized on subsequent machine models
 - Calibration through the console without additional software tools
- · Error codes with diagnostic messages on user interface
- · Easy software backup by USB drive

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对 System Layout



对 System Components

qSCALE I2 TH Console:

• 4.3" Color graphic display with integrated controller

• Operating temperature: -30°C to +70°C

• Protection rating: IP66 • Communication: CANopen • Power Supply: 9-36V DC



Main Working Screen



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▼ System Components

2 gSENS LWG Cable Reel:

- Measures length & angle
- Operating temperature: -25°C to +85°C
- Protection rating: IP65Communication: CANopenPower Supply: 9-36V DC
- Accuracy:
 - Length Accuracy: < 1,2% FS
 - Angle Accuracy: < ± 0.5°
- · Measurement range:
 - Length: 0m...15m (larger ranges possible on request)
 - Angle: -180° to +180°



3 pSENS Pressure Sensors:

- Measures hydraulic pressure in the cylinders
- Operating temperature: -40°C to +125°C
- Protection rating: IP66Communication: CANopenPower Supply: 10-35V DC
- Accuracy: Overall accuracy <±1% including non-linearity, air pressure, temperature
- · Measurement range: 300 bar, larger scale on request



4 CAN Breakout Box:

- CAN breakout 4 or 8 port configuration
- Operating temperature: -40°C to +85°C
- Protection rating: IP66Power Supply: 9-30V



System Options

5 Camera:

- Hardwired camera with horizontal or vertical orientation
- Operating temperature: -40°C to +85°C
- Protection rating: IP68 / IP69k
- Communication: NTSC



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System Options

6 Rear Axle Sensor (for LLMI)

• Measures the strain on the rear axle

• Operating temperature: -30°C to +80°C

• Protection rating: IP66/67 in accordance with DIN EN 60529

Communication: CANopenPower Supply: 9-36V DC

· Accuracy: Minimal temperature drift 0.1%/10K

• Measurement range: 0...1500 N



7 gSENS WGX Sensor

· Chassis tilt indication

• Operating temperature: -40°C to +85°C

• Protection rating: IP66 or IP69k

Communication: CANopen
Power Supply: 10-30V DC
Accuracy: ± 0,1° Accuracy





8 cSCALE DIO module (for lockout)

• Digital IO and analog inputs

• Operating temperature: -40°C to +70°C

Protection rating: IP66/67Communication: CANPower supply: 6-36V DC

Measurement range:

- Analog (4...20mA) and digital inputs

- Digital outputs up to 2A



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