

GENERAL CHARACTERISTICS

- In conformity with the International Safety Standards, specifically with the "CE" DIRECTIVE, TC147
- Electromagnetic compatibility in conformity with EN 61000-6-4 and 61000-6-2 (heavy industrial environment).
- Exclusive auto-calibration capability.
- Alternative calibration by external P.C.
- High level software for auto-diagnosis - constant auto-testing - intrinsic safety.
- Powerful Data logger in option for "EVENTS MEMORIZATION" and "PREVENTIVE MAINTENANCE".
- Reading of load by pressure survey and boom center of gravity calculation.
- Monitoring by Graphic LCD back lighted display, alphanumeric and icons.
- Rear connections through 2 x MOLEX "MINIFIT" connectors
- Possible connections to remote location by GSM
- Operational temperature range -20° / +70°C
- Typical load reading accuracy 1%
- Working radius reading accuracy 1%

POWER SUPPLY CONFIGURATION

- Operating Power Supply Voltage: +9 +32 V DC (operates on vehicle power supply directly)
- Separated power supply for the outputs and for the internal logic circuits.
- Current requirements on the internal logic power supply: approximately 100 mA
- Current requirements on the outputs power supply: total current up to 10 A (external fuse is required)
- Internal watchdog safety relay, controlled by the microprocessor, used to cut-off the power supply to the outputs in case of malfunctions of hardware or software.

ELECTRICAL CHARACTERISTICS

- Operating Temperature Range : from -25°C to +70 °C
- Storage Temperature Range : from -35°C to + 85°C

MECHANICAL CHARACTERISTICS

- 1 18 Poles Connector and 1 14 pole connectors MOLEX minifit
- Plastic housing with aluminium cover and integrated keyboard
- Dimensions for in-dash application : Width 189 mm - Depth 60 mm - Height 52 mm (radio set size)

Nova

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ON-DASH VERSION



IN-DASH VERSION



... This is



Ultimate in Compact Size
and Cost Effective
Load Moment Indicators

SLIM

One single compact case includes main control unit and display panel.

Available both for on-dash and in-dash installation.

Ease of installation, self-calibrating software and user friendly display makes SLIM ideal for a wide range of cranes : telescopic boom, lattice boom and containers handling machines.

READINGS

Main readings can be programmed in form of icons for attachments selections or by alphanumeric messages.

Typical readings:

- Actual lifted Load
- Max admitted Load
- Working radius
- Working high
- Boom Angle
- Boom Length
- Diagnostic messages/codes

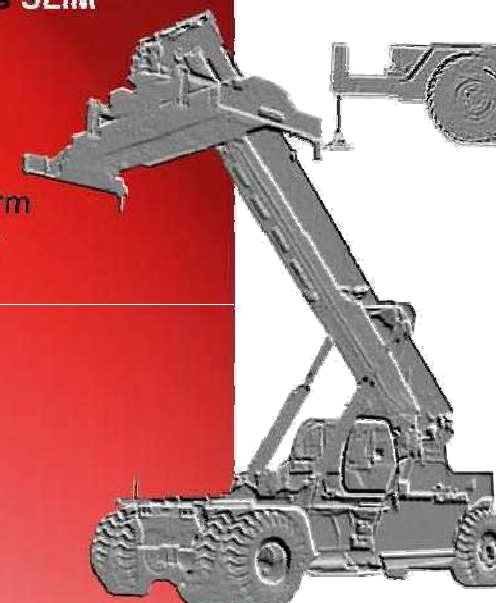
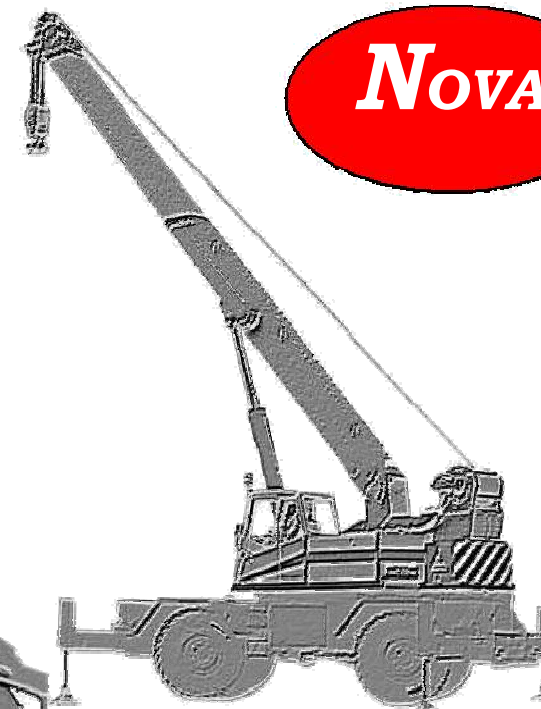
Options:

- A2B
- Data Logger
- Printer

SLIM is provided with a high number of configurable inputs and outputs, powerfull micro processor and wide memory size to perform sophisticated controls. Provided with Can Bus link and RS232 for connection with any external Can Bus units, PC, Printer.
Just for touch buttons for all programming and selections.

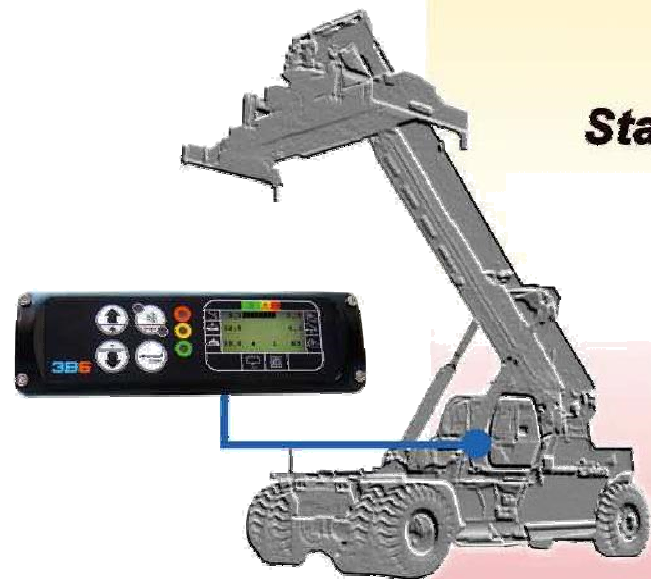
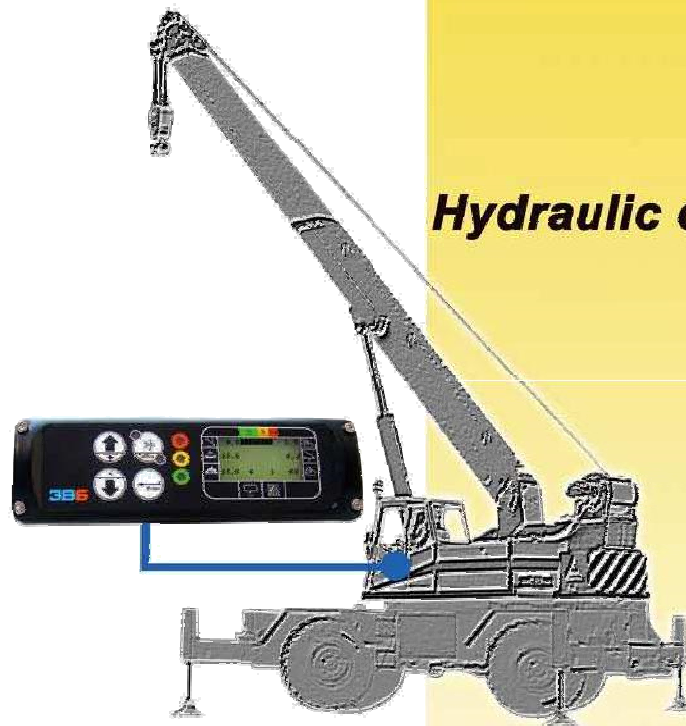


Nova



ONE SIZE FITS ALL !

Hydraulic crane



Stacker

Lattice boom crane



ANTI TWO BLOCK SWITCH

Anti-two-block safety device.
Includes an electro-mechanical spring loaded switch,
supplied with 5 Kg counterweight.
For any winch or hook lifting application.
Housing with output cable rated IP67

LENGTH / ANGLE SENSOR

Available in 12, 20, 32 and 40 meters sizes.
Integrated accelerometer based angle sensor.
3 slip rings assembly included; optional up to seven.
Analogue or CAN BUS outputs.
Rated with IP66 housing.

PRESSURE TRANSDUCERS

Voltage or current analog output.
Hydraulic side connection 1/4" BSPP threads.
Rated with IP65 stainless steel housing
DIN 43650 standard connector.
Optional IP68 version with Cannon connector.

OPTION PRINTER:

Easy to use 24 columns roll printer.
Available for all industrial applications
where a prompt paper support is requested
for job recording: Loads Weighing tickets, safety
checks, diagnostics control support.

LOAD CELL

A wide range of traction, compression,
pin, flexion load cells for detection of force.
Available in different sizes and upon
customer design used on retrofit cranes
in conjunction with AOL amplifier .

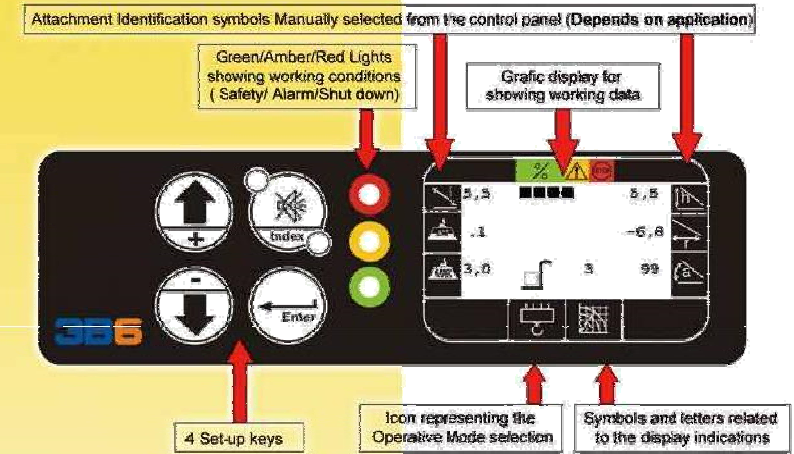
ROPE DYNAMOMETER

Tension rope detecting device,
based on the use of three pulleys.
Central one equipped with pin load cell.
Available in different sizes according
to rope diameter.
Includes load cell amplifier.

ANGLE SENSOR

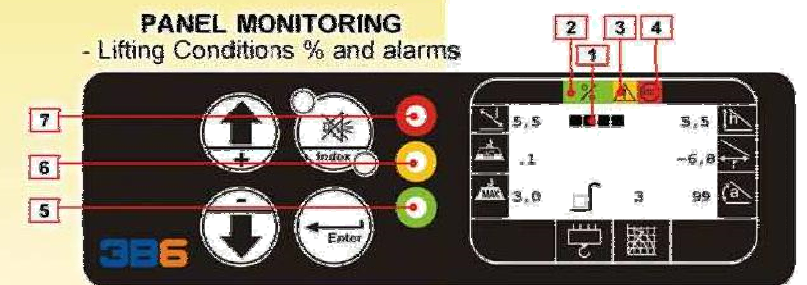
Accelerometer based technology.
Available in single (Boom Angle)
or dual axis (undercarriage level) versions,
analogue or CAN BUS output.
Angle measuring by gravitational force reference,
able to resist up to 50.000 g.,
Mil connector

CONTROL PANEL DESCRIPTION



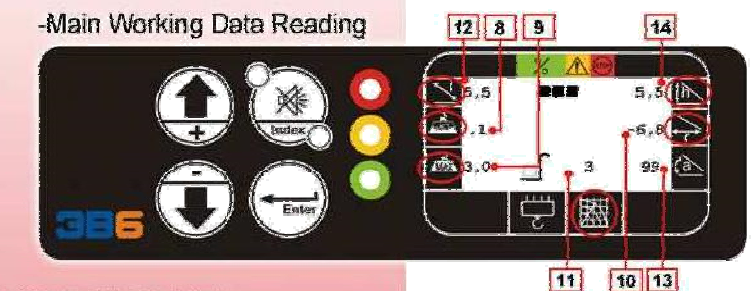
PANEL MONITORING

- Lifting Conditions % and alarms



1. LCD bar showing the lifted load in percentage to the maximum
2. Green reference: Safe Zone.
3. Amber reference: Alarm Zone (Lifted load higher than 90%)
4. Red reference: Shut-off Zone (Lifted load higher than 100%)
5. Green light on: Safe Working
6. Amber light on: Alarm (buzzer on)
7. Red light on: Dangerous movements shut off (buzzer on)

-Main Working Data Reading



- 8) **LIFTED LOAD WEIGHT:**
Reading in "Tonnes", with a decimal point
- 9) **MAXIMUM ADMITTED LOAD:** In present configuration.
Reading in "Tonnes", with a decimal point
- 10) **WORKING RADIUS:**
Reading in "Metres", with a decimal point
- 11) **WORKING CONFIGURATION:**
The first figure refers to the Operating Mode.
The second figure refers to the attachment been used .
- 12) **BOOM LENGTH.**
Reading in "Metres", with a decimal point.
- 13) **BOOM ANGLE.**
Reading in "Degrees" with a decimal point.
- 14) **HEIGHT FROM GROUND.**
Reading in "Metres", with a decimal point.

REMARK : In case of Imperial Measurement System, the weight will be displayed in "Pounds/1000" and the geometric data in "Feet".