

# NovaMaster

## Electronic hoist condition monitoring system

NovaMaster offers maximum security and guarantees a long hoist lifetime.



- **Safe working**  
Hoist gear monitoring, permanent SWP calculation, continuous overload protection
- **Protective working**  
Smooth lifting and stopping of the load
- **Short downtimes**  
Quick reading of all crane-related data on the display
- **Low maintenance costs**  
Smooth acceleration and braking reduce the wear and tear on motors and brakes

### Advantage: Easily optimises the crane's profitability

NovaMaster records all the crane-related data and enables a precise and reliable calculation of the current load on the hook. At the same time, the hoist motor is constantly monitored, thus protecting the entire crane from overloading.

NovaMaster protects the mechanisms and the hoist's brakes thanks to its smooth lifting and stopping of the load. Braking or accelerating is automatic and always at the lower hoist speed, whereby the hoist brake is released.

With a load spectrum recorder, NovaMaster permanently calculates the „safe working period“ (SWP), which can be read accurately as part of the annual review. Inaccurate and time-consuming calculations are a thing of the past.



Radio remote control  
RadioMaster with display



Current load on the hook

Total number of starts

Remaining safe working period (SWP)

### Additional features:

- Relay outputs for other electrically controlled additional functions
- Intermediate loads can be programmed for the hoist
- Analogue output, for example for a large load display (0-10 V)
- RadioMaster remote control with a display indicating the current load
- Slack rope function with a bypass, e.g. for using load suspension devices
- CANbus function to network up to 5 hoists
- Multifunctional inlets e.g. for overload switching points or start/runtime counters
- Load measurements/summation optional via strain gauge sensor or motor current measurements

### NovaMaster constantly monitors and stores all the hoists parameters:

- Remaining safe working period (SWP) of the hoist
- Total number of starts
- Total working period of the hoist motor
- Total number of hoist cycles
- Average load
- Remaining safe working period of the brake
- Current load on the hook
- Current supply voltage
- Total number of overload incidents
- Total number of emergency stop incidents
- Maximum value of the calculated duty cycle (ED)
- Total switch-on time of the crane
- Maximum measured value of the load and much more