

Electronic Control Systems

HIRSCHMANN maestro

brings crane safety up to date



A crane is an important piece of investment and has a long life. To maintain its viability and operational efficiency the mechanics of the crane need regular servicing and, if necessary, new parts have to be fitted.

But what about the crane safety system?

The Load Moment Indicator (LMI) ensures that the crane is never overloaded, thus preventing accidents. If doubt exists then the old system has to be replaced with a new one so that the safety of the crane can be guaranteed at all times.

HIRSCHMANN maestro offers a quick and cost-effective solution should this need arise.

Developed by PAT, this new system uses latest technology and provides the highest levels of reliability and can process the data from a wide range of older PAT installations.

So the LMI doesn't have to be re-programmed and re-calibrated, giving huge savings in time and money.

- Existing information and tested functions are simply taken over into the new system and standards applying at the time are simply retained.
- There is no loss of data and no need for timeconsuming and expensive re-programming and re-adjustment of the crane.
- The sensors can be re-set directly through the console, dispensing with the need to use any special equipment.
- The wiring and the length/angle sensor from the old equipment, as well as the A2B (anti-two block) switching can usually simply be re-used.

Technical Data

<i>maestro</i> Console	
Supply voltage	10 - 30 V DC
Housing	on-dash
Protection class	IP 65
Dimensions	180 x 140 x 70 mm (WxHxD)
Display	LCD ,illuminated
Indication of:	utilization (bargraph) maximum load actual load geometrical data operation mode number of reevings
Keyboard (illuminated) Working temperature range	11 buttons / 3 indicators -25 °C to +70 °C



Accessories spherical retainer

maestro Central Unit

Supply voltage	10 - 30 V DC
Current consumption	approx. 1 A (with console)
Housing	sheet metal
Protection class	IP 65
Dimensions	270 x 210 x 62 mm (WxHxD)
Working temperature range	-25 °C to +70 °C
Accessories	cables to console and pressure transducers



Pressure Transducer DAVS

(1 or 2 required with hydraulic cranes)
Supply voltage 10 - 30 V DC
Signal output 4 - 20 mA
Measuring ranges 250 /300 /400 /500 /600 bar
Hydraulic connection G1/4" A, DIN 3852, with nozzle 0,5 mm
Protection class IP 65
Dimensions 81,2 x 29 mm (L x ø)
Working temperature range25 °C to+70 °C
Accessoriesadaptor fittings and adaptor cables



DS 100 DS 150 (DS 350)* DS 50 *only basic systems without special functions

To verify the individual application please check with PAT or one of our approved retrofit dealers.

Electronic Control Systems

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Control	LMI	Consoles	Sensors	Application	Software
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... **NEW** from **OLD**:

HIRSCHMANN maestro

brings crane safety up to date

Retrofitting with **HIRSCHMANN** *maestro* can be achieved quickly in just four steps:

1 a new central unit, console and new pressure transducers instead of the old equipment, depending on the type of crane.

2.

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install memory chips from the old system in the **maestro** central unit.

3. adjust the sensors quickly and simply using the keyboard from the *maestro* console.

to finish off, do a test run. The crane is now ready to use. Update? YES. Re-program - NO!

HIRSCHMANN's **maestro** offers a wide range of advantages:

- Existing information and tested functions are simply taken over into the new system and standards applying at the time are simply retained.
- There is no loss of data and no need for time-consuming and expensive re-programming and re-adjustment of the crane.
- The sensors can be re-set directly through the console, dispensing with the need to use any special equipment.
- The wiring and the length/angle sensor from the old equipment, as well as the A2B (anti-two block) switching can usually simply be reused.



You can be re-assured that it is more cost-effective and quicker to bring an older PAT LMI up to date using HIRSCHMANN's *maestro* than resorting to any other alternative.