COACH-II
Data recording and management for EOT cranes
Measurement made easy
Data recording system specially dedicated to crane monitoring

New generation of electronic data logging, monitoring and management system for overhead travelling cranes (EOT), adaptable to other types of crane.

Designed to optimize the maintenance with full knowledge of mechanical stress during use.

Can be used as a ‘flight recorder’ tracing the history of all recent movements.
Applications

The Coach-II is perfectly designed to the following applications:

- Survey and monitoring of overhead travelling cranes (EOT)

Functions

- Hourly recording on a duration of 25 years of:
  - Upward (ascent), downward (descent), long travel (translatory) and short travel (trolley direction)
  - Number of inchings
  - Lifted load’s spectrum and overloads
  - Recording of sequences of recent movements (6 months)
  - SWP (Safe Working Period) calculation
  - Display on front color touch screen (lifted load, movements, SWP, alarms, temperatures, etc.)
  - Alarm detection and management (overloads, SWP, etc.) with activation of a relay
  - Detection of wire break of the analogue input
  - Protection against overvoltage and reverse polarity at the analogue input
  - Coach-II programming and data retrieval via the USB stick or via Ethernet (option)
  - Centralization of EOT cranes utilization data on a server accessible from any browser (GPRS option)
  - Coach-II is supplied with the COACH-VIEW (configuration and analysis data by visualizing by means of graphs and tables)

Specification

<table>
<thead>
<tr>
<th></th>
<th>COACH-II-IP 54</th>
<th>COACH-II-IP 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accuracy</td>
<td>0.1 % F.S. 1</td>
<td>0.1 % F.S. 1</td>
</tr>
<tr>
<td>Qty of relay</td>
<td>2</td>
<td>2</td>
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<tr>
<td>Display</td>
<td>Touchscreen 5.7 in color</td>
<td>Touchscreen 5.7 in color</td>
</tr>
<tr>
<td>Internal memory</td>
<td>128 Mo 3</td>
<td>128 Mo 3</td>
</tr>
<tr>
<td>IP Rating</td>
<td>IP 54</td>
<td>IP 65</td>
</tr>
<tr>
<td>Temperature data</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Service temperature range</td>
<td>0 to 50 °C (32 to 122 °F)</td>
<td>0 to 50°C (32 to 122 °F)</td>
</tr>
<tr>
<td>Storage temperature range</td>
<td>−20 to 70 °C (−4 to 158 °F)</td>
<td>−20 to 70 °C (−4 to 158 °F)</td>
</tr>
<tr>
<td>Electrical data</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power supply</td>
<td>24 V DC</td>
<td>24 V DC / 100 to 240 V AC</td>
</tr>
<tr>
<td>Analog input</td>
<td>1 × 0 to 10 V / 4 to 20 mA</td>
<td>1 × 0 to 10 V / 4 to 20 mA</td>
</tr>
<tr>
<td>Digital Input</td>
<td>4 ^2</td>
<td>4 ^2</td>
</tr>
<tr>
<td>Output signal</td>
<td>0 to 10 V / 4 to 20 mA (SWP)</td>
<td>0 to 10 V / 4 to 20 mA (SWP)</td>
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<tr>
<td>Contact rating</td>
<td>5 A @ 240 V AC / 28 V DC</td>
<td>5 A @ 240 V AC / 28 V DC</td>
</tr>
</tbody>
</table>

1 F.S.: Full scale
2 Potential free contact
3 Compact flash
4 48 V AC (option)

Specifications subjects to change without notice
Dimensions

Data recording and management for EOT cranes

**COACH-II**

All dimensions in mm (in)

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**COACH-II-IP54**

- Width: 145 mm (5.70 in)
- Height: 76 mm (3.0 in)
- Depth: 203 mm (7.99 in)

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**COACH-II-IP65**

- Width: 320 mm (12.59 in)
- Height: 300 mm (11.81 in)
- Depth: 160 mm (6.29 in)

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**Figure 1:** Standard dimensions

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**Figure 2:** Other view / Terminals

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- USB (1x)
- Power supply
- Movements (0-10 V or 4-20 mA)
- Load cell signal (0-10 V or 4-20 mA)
- Analogical output 1 (0-10 V or 4-20 mA)
- Relay output 1
- Relay output 2
Notes
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