

The COACH-II, a new generation of electronic data logging, monitoring and management system for overhead (EOT) cranes; adaptable to other types of crane.

It is designed to optimize the maintenance with full knowledge of mechanical stress during use.

It can be used as a "flight recorder" tracing the history of all movements.



COACH-II

Functions

- Hourly recording (on a duration of 25 years) :
 - o Upward (ascent), downward (descent) movement, long travel (translatory) en short travel (trolley direction)
 - o Number of inching
 - o Lifted load spectrum
 - o Overloads
- Recording of sequence of recent movements (6 months)
- SWP calculation (Safe Working Period)
- Display on touch screen
 - o Lifted load
 - o Up, down, long travel and short travel movements
 - o SWP
 - o Current alarms and history of alarms
 - o Temperature (CPU and housing)
 - o Date and time
- Alarm s' detection and management (overload, SWP, etc...)
- Programming of COACH-II and download of the data's by USB stick

Inputs

- 4 digital inputs for voltage free contacts to connect the movements of the crane
- 1 analogical input 0-10V or 4-20mA (to be specified when ordering) from proportional signal of the lifted load. Must be connected to an existing load measuring system.
- Sampling rate: 20 ms
- Cut cable detection
- Protection against overvoltage and reverse polarity
- 4 digital inputs for supplementary voltage free contacts (option)
Example: Recording of error signals from a frequency inverters

Outputs

- 1 analogue output 0-10V or 4-20mA (to be specified when ordering) proportional to SWP in real time.
- 2 relays actuated by the alarms (user configurable)
Example : Command of a warning light when the SWP has reached is minimum value
- Early warning system via SMS (optional)
- Ethernet link
- USB stick

Specifications

Parameters	Min	Typical	Max	Unit
Power supply	100	-	240	VAC (1)
	18	24	30	VDC (option)
Analogical measurement precision	-	0.1	-	% Full Scale
Thermal drift of the analogical input	-	0.1	-	%/10°C
Temperature measurement accuracy	-	2	-	°C
Display	Touchscreen – 5,7" – LCD monochrome			
Analogical input (to be specified when ordering)	0-10 V or 4-20 mA			
Digital input	Free contacts			
Analogical output (to be specified when ordering)	0-10 V or 4-20 mA			
Internal compact flash memory	128 Mbyte			
Output relays	inverter - 5 A at 240 VAC or 28 VDC			
Operational temperature range	0	-	50	°C
Storage temperature range	-20	-	70	°C
Protection Rating	-	IP65	-	-

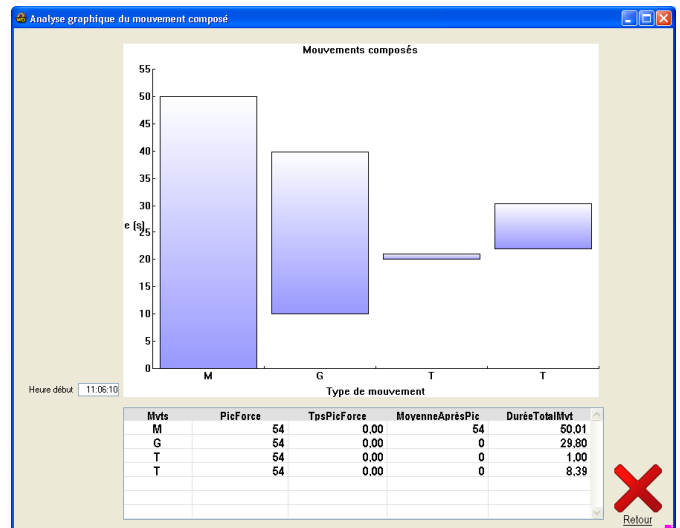
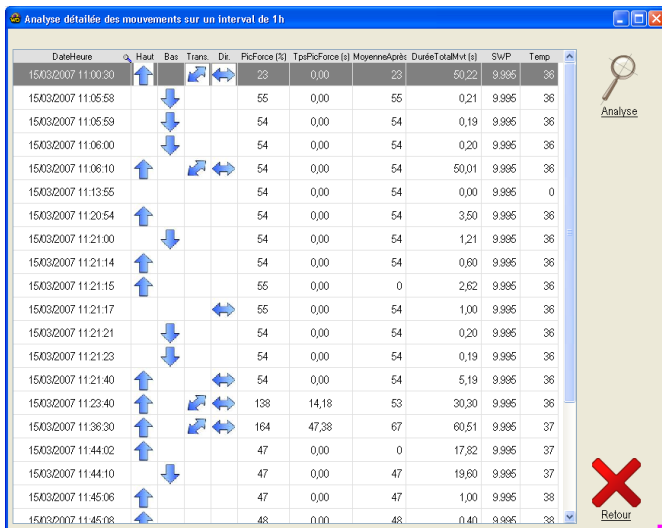
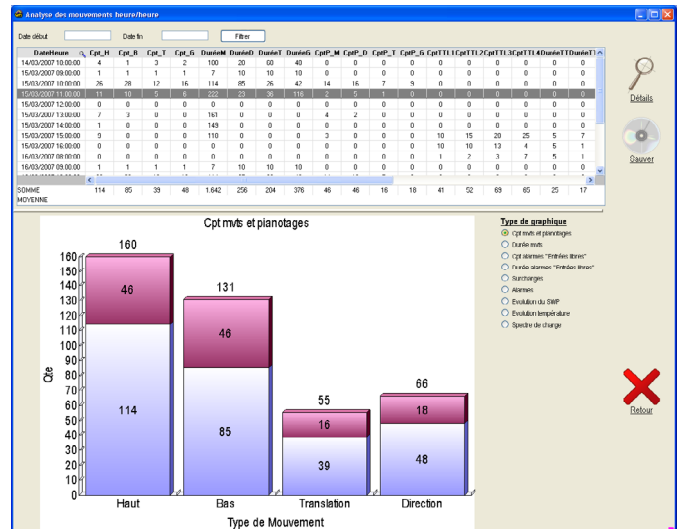
(1) 48 VAC in option

An OEM version of COACH-II without housing is also available (front plate: IP65, rear: IP20, supply: 24 VDC)

Programming and exploitation software COACH-VIEW

The COACH VIEW software is delivered with the COACH-II. It is a powerful program with following features:

- COACH-II configuration (USB key)
 - Data's download (USB key)
 - Analyse of the data's by viewing with charts and tables.
- This very user friendly program allows: the optimization of servicing schedule, the detection of downtimes and the calculation of the FEM classification of the crane.



Dimensions

(All measurements in millimetres)

