·GH·
CRANES & COMPONENTS

COREBOX

Advanced Control and Monitoring

+ GH'S SOLUTION: COREBOX: Control + Monitoring + Connectivity*.

/ **Control:**
- Electronic load limiter linked to a load cell.
- Controls hoist motor in the event of an over-temperature occurrence.

/ **Monitoring:**
- Operational data: Times, Moves, Cycles, Loads Lifted.
- Incident log: Overloads, Over-Temperature, VFD (variable speed drive) faults.
- Remaining DWP (Design Working Period, calculated according to ISO 12482). It is reported as SWP (Safe Working Period).

/ **Connectivity*:**
- Communicates the monitored parameters via a cellular network to GH CRANES's proprietary data platform. GH CRANES uses this information to provide its customers with GH Realtime, a set of advanced usage and maintenance services
- Using the CUSTOMER PORTAL of GH CRANES (portal.ghcranes.com), the crane's owner can access complete and real-time information on the crane's operation.

+ ADVANTAGES

/ All functions (Control + Monitoring + Connectivity*) integrated into a single device.

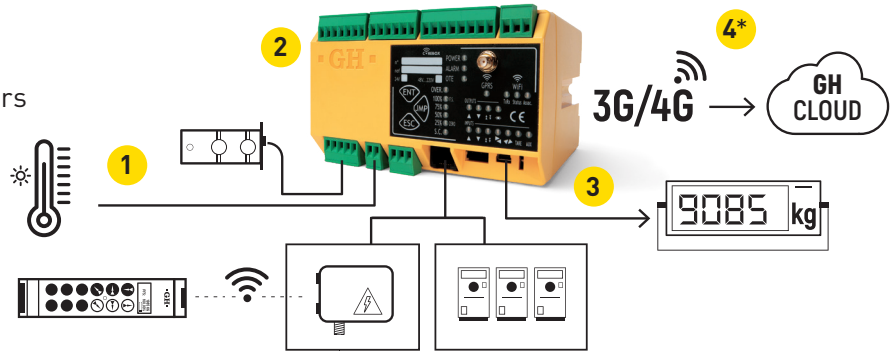
/ Available connectivity to accessories, such as Displays and Radio Controls, for continuous viewing of data such as Lifted Loads and Safe Working Period (SWP).

/ By communicating via 3G/4G** networks, COREBOX does not interfere with the customer's internal network.

/ COREBOX may be retrofitted to other crane brands, enabling monitoring and SWP calculation, without interfering with their operation.

+ HOW IT WORKS

1. COREBOX receives data from the load cell, the VFD's, and the thermal sensors of the motors.
2. COREBOX process and records the operating parameters of the crane and the errors detected.
3. COREBOX sends the data of the lifted load and SWP to the display or radio control.
4* COREBOX communicates via the cellular network, to GH CRANES'* proprietary platform*



TECHNICAL DETAILS

Power supply 48-220Vac. Analog load cell input. Voltage inputs for movements with 48-220Vac range. Outputs to relay with possibility of timing. Input for motor over-temperature sensor. Optimized for Schneider variable frequency drives and Danfoss-Ikusi and Autec radio controls.

* Connectivity is optional and involves additional cost.
** Connectivity is structured to match locally available 3G or 4G networks.