CLL
COLM OVERLOAD MANAGEMENT FOR LIFTING SYSTEMS



USB Type C

CLL - 1 - 1 - 2 - 1 - M - 1 - J

Product family	Function	Data transfer	Relay nu	Loadcell nu	Comm	Wireless comm	Optional input
CLL Control Unit	1 - Overload 2 -COLM-Via APP	0-Non 1-Via type C	**2** 3 **4**	**1** 2	M- Modbus I- 4-20 mA V-0-10 V C-CANBUS	1 - Non(cable) 2 - Bluetooth 3 - Wi-fi	J-Gyroscope W-Wind sensor

DESCRIPTION

- Digital load limiter/transmitter for lifting systems.
- Mounting on Omega/DIN rail for back panel or junction box.
- Dimensions: 106x106x43 mm (terminal blocks included).
- Set-up and calibration via keyboard or ANDROID and IOS APP display 6-digit, 5 mm height) .
- Alarm signal following load cell connection failure.
  Connecting multiple units with load limiting and summing function.
- LED indicators showing the status of the relay outputs.
- 5 key keyboard.

CLL** SPECIFICATIONS

- Load limitation detected by the intervention of alarm and pre-alarm thresholds.
- Load limitation (single and sum) for systems with up to 2 weighing points, by connecting multiple units.
- Connecting multiple units with load limiting and summing function.
- Availability of lifting operation counters.

  When the load is below the set nominal value, the activation of the third and fourth relays enables the system to operate at the third and fourth speed levels.

INPUTS / OUTPUTS AND COMMUNICATION

USB Type C

- RS485/RS232 serial ports for communication via ASCII continuous one way transmission.
- 2 digital inputs: status reading via serial communication protocols.
- CLL**
  - 4 exchange relay outputs.
  - 2 load cell dedicated input.
  - Integrated RF interface for connecting multiple units (option on request
  - 4 relay outputs: three exchange relay outputs + one safety exchange relay output with guided contacts.
  - 2 independent load cell inputs.

COLM® SPECIFICATIONS

PDF

You can remotely control all the functions listed below using the iOS and Android apps.

*Calibration
*Tare function
*Individual configuration of four relay outputs
*Gyroscope or anemometer input
*Communication with inverters via Modbus
*Recording overvoltage, overcurrent, high-temperature, and inverter fault conditions
**Real-time recording of overload events
Real-time recording of lifting cycles
*Real-time recording of weighing results with product-type
*information Exporting records in Excel or PDF format
*Printing reports

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MAIN FUNCTIONS

- Connections to:
  - PC/PLC via RS485/RS232;
  - Remote display via RS485/RS232;
  - up to 2 load cells in parallel by junction box;
  - other units for summing function via RS485 or RF (option on request).
- Continuous load cell connection integrity check.
- Digital filter to reduce the effects of weight oscillation.
- Theoretical calibration (via keyboard) and real calibration (with sample weights).
- Tare weight zero setting.
- Automatic zero setting at power-on.
- Gross weight zero tracking.

CERTIFICATIONS

CE certification for European Union countries.

PL d Category 2 as per EN13849-1, PL d (comparable to SIL2 level, EN62061 standard) (LCD3PL)

Pb free

TECHNICAL FEATURES

Power supply and consumption	24-250 VDC/VAC; 6 VA
Number of load cells • Load cells supply	up to 2 (350 Ω) • 10 VDC
Linearity	<0.01% full scale
Thermal drift	<0.002% full scale/°C
A/D Converter	24 bit
Measure range	±3.9 mV
Conversion per second	3
Decimals • Display increments	0÷4 • x1 x2 x5 x10 x20 x50
Digital filter	0.25÷3 Hz
Relay outputs	4 exchange relay outputs - 30 VDC/250 VAC; 2 A
Optoisolated digital inputs	2
Serial ports	RS485, RS232
Baud rate	1200, 2400, 9600, 19200, 38400, 57600, 115200 (bit/s)
Humidity (condensate free)	85%
Storage temperature	-30 °C +60 °C
Working temperature	-20 °C +55°C

OPTIONS ON REQUEST

CED



CLP



CWL



DESCRIPTION

CED :IP54 Aluminium body 6 digit external display RS232 / 485 communication
CED-3X: 3 inch; 6 × 76 mm LED; 620 × 150 × 100 mm
CED-4X: 4 inch; 6 × 102 mm LED; 770 × 150 × 100 mm
OPT :Integrated RF (radio) interface for connecting multiple units RF frequency 2.4 GHz (128 channels) Average range of coverage 100 metre

CLP	IP66 Pin Type Loadcell	Standard 4G0,22 mm 3.5 m cable
CWL	IP66 Wire rope Type Loadcell	Standard 4G0,22 mm 3.5 m cable

Rev. 0.0

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