Universal Digitizer for Load Cells

LCB

2nd Commercial Webinar

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Topics

General features

LCB Manager

Applications: examples

Q&A









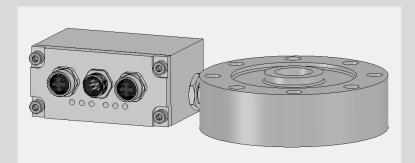
General features

- Transforming load cells signal from analogic to digital
- Interfaceable with any PLC



Ideal for IoT and Industry 4.0 applications

Installation joint to the load cell (free from electromagnetic disturbances)





General features

Stainless steel AISI316, IP67 Protection (dim. 97x38x82mm including flying connectors)

Status LEDs for communication interface

2 fixing holes for wall mounting via anchor plate (optional)

1 micro USB port, 3 relays outputs, 2 digital inputs, 1 load cell input







LCB Manager software for configuration and remote control, backup and resetting of parameters and settings, updating



General features

Certifications:





Programs

BASE PROGRAM

LOAD PROGRAM FOR SINGLE PRODUCT

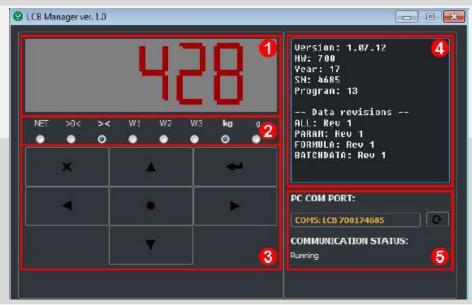


Application gravimetric filler



LCB Manager

- The software allows to set and manage the LCB remotely
- Replication of instrument interface, signalling LEDs and keyboard on PC



Connection via micro USB



Manager's features

Backup and restoration of parameters and settings

Firmware updating



Programming

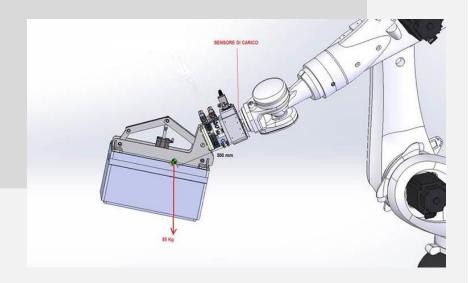


APPLICATIONS: Weight control for robot arm

CHARACTERISTICS OF THE INSTALLATION:

- material handling in a production line
- automatic control via PLC
- detection of a moving weight
- space restricted by movements of the machine

- digital output
- setpoints management
- single load cell converter
- installation together with load cell



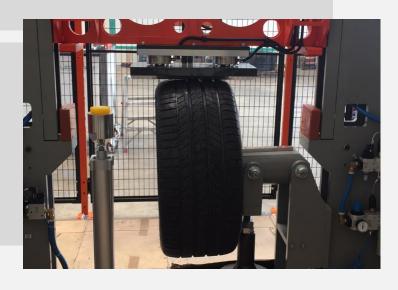


APPLICATIONS: Test machines

CHARACTERISTICS OF THE INSTALLATION:

- two independent measurement points (two single cells)
- Profinet-IO protocol

- converter for single load cell
- fieldbus available



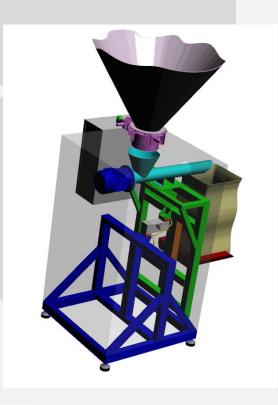


APPLICATIONS: Filling machine for food industry

CHARACTERISTICS OF THE INSTALLATION:

- one supporting point
- communication to PLC
- load weighing
- external agents

- converter for single load cell
- installation joint with cell
- load program
- IP67 and AISI316





APPLICATIONS: Weight line check

CHARACTERISTICS OF THE INSTALLATION:

- conveyor belt with single load cell
- communication to a PLC/HMI
- continuous weighing

- converter for single load cell
- joint to the load cell
- high speed transmission





APPLICATION: Material test machines

CHARACTERISTICS OF THE PLANT:

- test machine with one load cell
- Transmission via fieldbus of the maximum peak

- converter for single load cell
- fieldbus
- «peak» function





Advantages of the LCB

Versatility about PLC and load cells by different producers

Limited size, possible to install joint to the load cell

USB connection without converter RS485/USB

Reduced electric and electromagnetic disturbances

of the Manager

Remote configuration

Backup and storage of configuration data

Firmware update





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