LCB - LOAD CELL DIGITALIZER



2nd Technical Webinar

Matteo Grisanti Parma, 16th May 2018



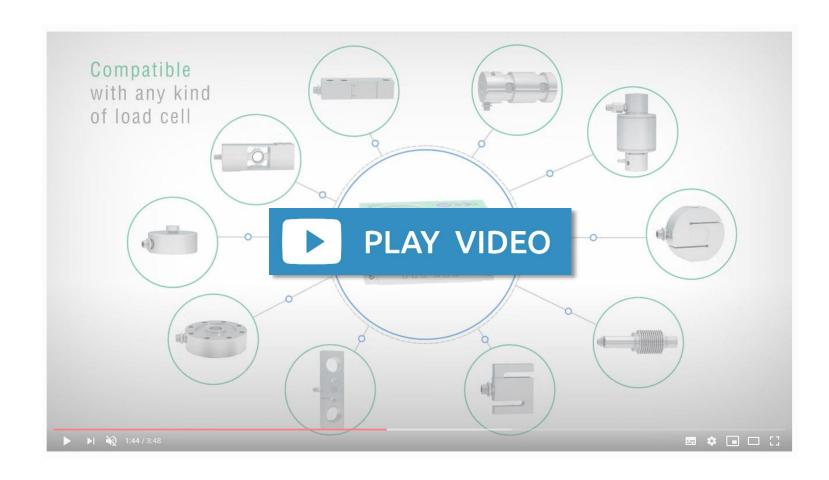
OUTLINE

TOPICS

- Introduction
- Connection to the load cell (Video content)
- Configuration (Live demo)
- Remote management (Live demo)
- Q&A



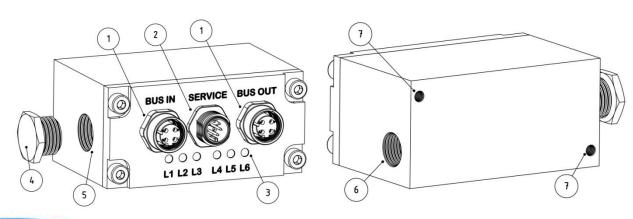
LCB - INTRODUCTION





LCB - INTRODUCTION

- BUS IN/BUS OUT: M12 connectors specific for the communication interface; the corresponding flying connectors with solder terminals are supplied.
- SERVICE: M12 connector dedicated to the instrument power supply and to the digital outputs and inputs connection; the corresponding flying connector with solder terminals is supplied.
- L1÷L6: Status LEDs of the communication interface.
- PG9 cap with hexagonal head.
- Hole for USB input.
- Hole for load cell input.
- M4 holes suitable for any fixings























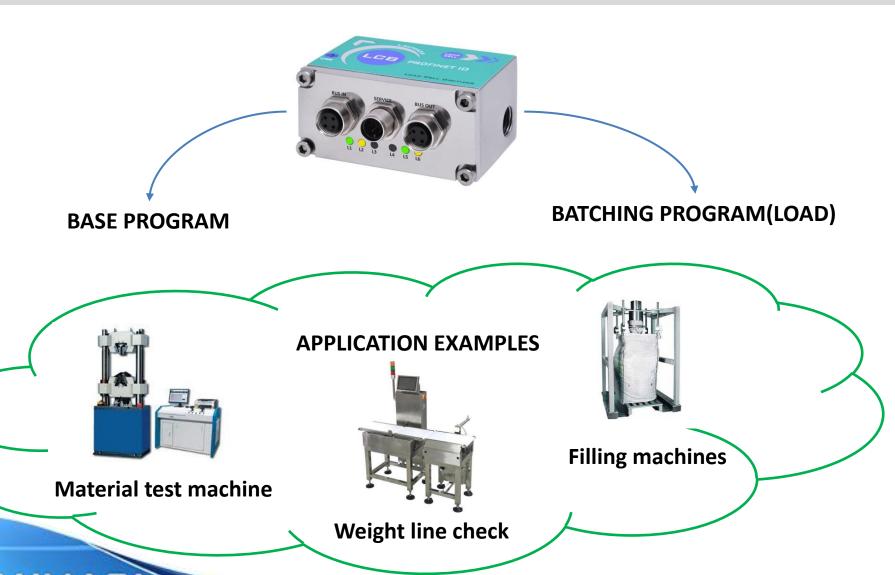




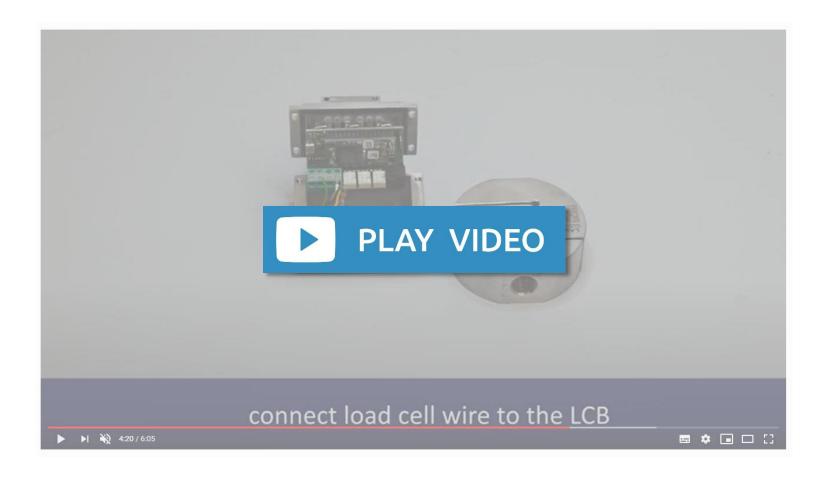


LCB - INTRODUCTION

ELETTRONICA



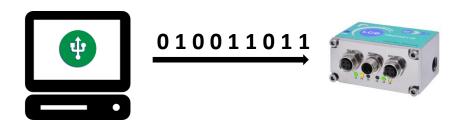
CONNECTION TO THE LOAD CELL



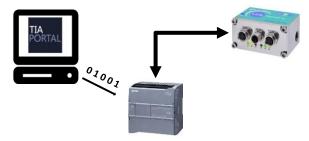


CONFIGURATION

• By the LCB manager PC software, via the connection to the USB service port



• By the filedbus interface available on the LCB model selected



By the RS485 interface, using MODBUS RTU protocol



LCB MANAGER DEMO

Demo setup:

- 1. LCB Manager installed on the PC
- 2. LCB

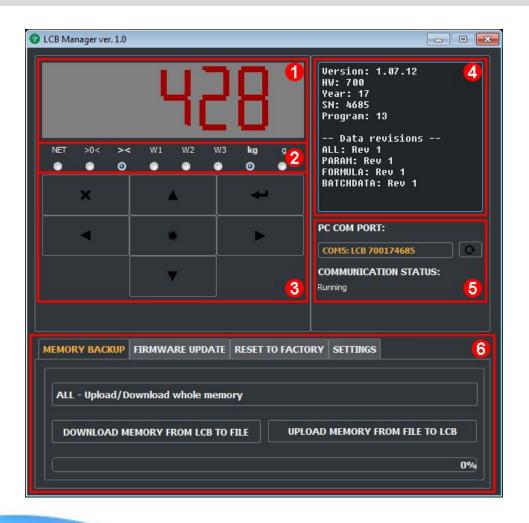


Demo summary:

- 1. LCB Manager interface and main functions description
- 2. LCB calibration with sample weight
- 3. LCB configuration backup



LCB MANAGER DEMO



INTERFACE SECTIONS:

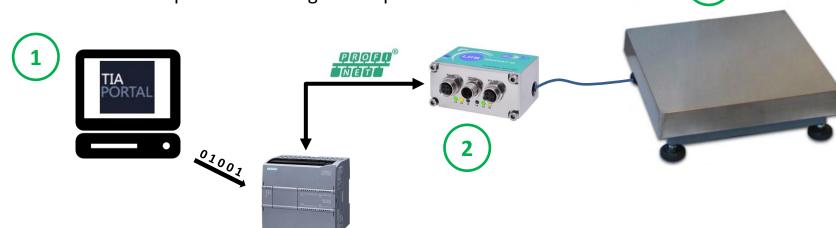
- 1. 7-segmeth style display
- 2. LED
- 3. Keyboard
- 4. Instrument information
- 5. Communication management
- 6. Service functions:
 - 1. Memory backup
 - 2. Firmware update
 - 3. Reset to factory
 - 4. Settings



PROFINET COMMUNICATION DEMO

Demo setup:

- 1. TIA PORTAL V14
- 2. SIMATIC S7-1200 PLC
- 3. LCB-PROFINETIO
- 4. Laumas ACN15 platform as weight receiptor



Demo summary:

- 1. TIA Portal project setup
- 2. Communication configuration
- 3. Communication interface analysis



PROFINET COMMUNICATION DEMO

Output data from instrument (reading)	Abbreviation*	Dimension (byte)
Gross weight	GW	4
Net weight	NW	4
Exchange register R1	R1	4
Exchange register R2	R2	2
Status Register 1	SR1	2
Status Register 2	SR2	1
Instrument status	IS	1
Execution register	EXR	2
Digital inputs status	INS	1
Digital outputs status	OUTS	1

Input data to instrument (writing)	Abbreviation*	Dimension (byte)
Command Register	CMDR	2
Digital outputs command	CMDOUT	2
Exchange register W1	W1	4
Exchange register W2	W2	2

Interface's main features:

- 1. Same structure for all the available filedbus interfaces
- 2. Configuration and management for both, base and batching programs





www.laumas.com/en



sales@laumas.it

Send us an e-mail to request the **participation certificate** or further information



The archive of **Webinars** and video **Tutorials** for a comprehensive training

#LAUMASKnowHow



Webinar Calendar

Check the program of the **next online courses** and choose the
one that suits you best

Thanks for your attention!