QUESTION TIME

Q & A

A selection of the best Q&A.

LAUMAS®
Innovation in Weighing

WEIGHT TRANSMITTERS

Webinar 2020

#LAUMASKNOWHOW

Q Can LAUMAS **weight transmitters** be connected to any load cell?

A Yes, all our **weight transmitters** are compatible with strain gauge load cells from any manufacturer.

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Q Can you connect the **CLM8 intelligent junction** box directly to a PC or PLC, without using the W-series weight indicators?

A Yes, you can connect **CLM8** to a PC or PLC using the **RS232** and **RS485** serial ports with the LAUMAS **Modbus RTU/ASCII** protocol.

You can also request the additional port for an Ethernet TCP/IP fieldbus connection.
Once the weight transmitter is connected, simply develop the correct software on your PC to receive the weighing data.

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Q & A

The questions of the participants, our answers.

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Q How many load cells can be fitted in an **on-board weighing system** managed via CLM8?

A **CLM8** can handle from 4 to 8 load cells. To choose the correct number of load cells to be used on your on-board weighing system, several factors must be considered, including:

- gross weight of the system;
- vehicle dimensions;
- rigidity of the structure.

For advice on the right fit for your weighing system, **please contact us** .

Q In a **multi-load cell weighing system**, what are the benefits of using a multichannel weight transmitter instead of a single channel transmitter + junction box?

A Compared to single-channel weight transmitters, **multichannel transmitters** have several advantages.
Their additional features enable managing multiple load cell systems more effectively thanks to:
- **digital equalization**
- **advanced diagnostics**
- monitoring the individual load cells
- saving events
- inclinometer function
- full transmitter management from PLC via fieldbus
- single product LOAD batching program (excluding CLM8)

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Q Do you have any weight transmitters that manage an **inclinometer**?

A Yes, for our multichannel weight transmitters, **inclinometer management software** is available, allowing the instrument to read the inclination data provided by the sensor and to compensate for variations in the weight value due to the system not being perfectly horizontal.

The resulting weight correction is also valid for third-party approved systems (OIML R76 certification).

For more detailed information, please read the News **"INCLINOMETER FUNCTION" for ON-BOARD weighing systems**.

Q Do you have any approved **SIL2**, **SIL3**, **PL-C** or **PL-D** instruments?

A Yes, the load limiter **LCD3PL** which has been designed to work precisely as part of a safety system.
It is Category 2 certified in accordance with EN 13849-1:2008 PL-D, corresponding to level SIL2 (EN 62061 standard). The performance of LCD3PL has been verified by a notified body.

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Q What is the **maximum** permitted **distance** between the **weight transmitter** and the **load cells**?

A The distance between the load cell and the weight transmitter depends on the type of cable used to connect them.
If a **6-wire cable** is used, there is no maximum distance, as the two additional wires (called references) can compensate for any voltage drop due, for example, to cable length or temperature changes.
If instead you are using a **4-wire cable**, do not exceed 300 metres in length.
It is also important for the load cell cables not to have different lengths to each other.

For more information on installing load cells and their connecting cables, **please read the FAQ**.
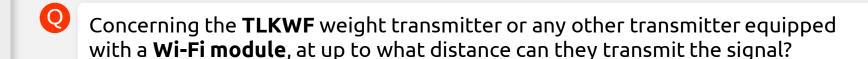
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Q Concerning the **TLKWF** weight transmitter or any other transmitter equipped with a **Wi-Fi module**, at up to what distance can they transmit the signal?

A Both the weight transmitter **TLKWF** and any other transmitter connected with the Wi-Fi module **MODWF** can transmit up to a distance of 100m in free air.

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Q Do you have any **Wi-Fi transmission modules** that can be connected to weight transmitters?

A Yes, it is possible to integrate Wi-Fi transmission through the transmission module **MODWF** which acts as the communication interface

Alternatively there is **TLKWF**, the weight transmitter with an integrated Wi-Fi module.

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Q Should the **communication protocol** be chosen when ordering the weight transmitter, or can it be selected later directly with the instrument?

A The protocol (or fieldbus) has to be specified at the time of ordering. Our weight transmitters only handle the protocol for which they have been configured and as yet there is no multi-protocol solution available.

Q Can the same **configuration file** be used for all versions of **TLB**?

A No. Each version of **TLB** has its own configuration file, depending on the fieldbus used.

By selecting the version you want, you can download the configuration file directly from our website on the page for **SOFTWARE and CONFIGURATION FILES** .

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Q Can the **Instrument Manager** supervisory software be used to calibrate LAUMAS weight transmitters?

A Yes, the Instrument Manager can be used with the LAUMAS weight transmitters series **TLB** , **TLB4**, **TLS**, **TLM8** and with the intelligent junction box **CLM8**.

The software permits you to calibrate and update the instrument, monitor the measured weight and store the data. It is free and can be downloaded **here** .

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Q Can multichannel weight transmitters transmit to the PLC the **percentage load distribution** present on each connected load cell?

A Yes, multichannel transmitters **TLB4**, **TLM8** and **CLM8** transmit to the PLC, via fieldbus, the weight distribution over the various load cells connected to the instrument and the values of mV read individually on each channel. **Monitoring** this information is also possible from a PC, via the **Instrument Manager** supervisory software.

Q Is there any **software** for weight transmitters to handle **weighbridges**?

A Yes, the software **PROGWBRIDGE** for managing weighbridges is compatible with the weight transmitter/junction box **CLM8**, as well as with the weight indicators **WTAB** (L/R and BL/BR) and **WINOX** (L/R and BL/BR).
It allows managing up to **2 weighbridges** directly from a PC and performing tasks such as:
- Single weighing;
- Double weighing;
- Multiple weighing.

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Q Is it possible to **digitalize** an old **weighbridge** with column load cells?

A Yes, it is possible. By replacing the "traditional" junction box with the intelligent junction box **CLM8**, which enables reaping all the benefits of a digital system, such as digital equalization and automatic diagnostics.

Thanks to CLM8, it will also be possible to manage the entire weighbridge from a PC with the software **PROGWBRIDGE**.

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Q I have a **double beam bridge crane** with 2 hooks with a capacity of 5 and 7 metric tons. Do you have an instrument that can manage the load limitation on the single hooks and on the sum?

A Yes, of course. The load limiter **LCD3** is ideal for lifting systems such as this and it is also capable of handling bridge cranes that have up to 4 hooks.

Q If you cannot empty a full tank to zero set the tare, can you do the **weight calibration** on the LAUMAS weight transmitter?

A Yes, of course. After entering the parameters of the theoretical calibration on the weight transmitter, it is sufficient to indicate the known tare value in the INP 0 parameter, which will allow it to be zero set without draining the tank.

Watch the tutorial to be guided through the theoretical calibration of LAUMAS instruments.

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Q Can I **connect 2 scales** to the same multichannel weight transmitter?

A Yes. Although LAUMAS multichannel transmitters are designed to work connected to a **single weighing system**, a single multichannel transmitter can be used to manage multiple scales.

In this case, however, the transmitter will lose all its functions of digital equalization, load distribution, diagnostics and advanced monitoring, becoming a simple mV/V to fieldbus **signal converter**.

Only non-filtered divisions will be sent to the PLC and you will need to develop software to perform calibration and filtering

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Q If I replace a **damaged load cell** with one of a similar rated output, can I avoid re-calibrating with a sample weight?

A For the best accuracy, it is always preferable to repeat the calibration with a sample weight. If this is not possible, you can still work temporarily by basing yourself on the theoretical calibration data.