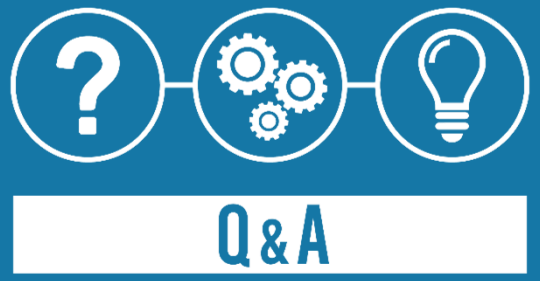
QUESTION TIME



A selection of the best Q&A.

LAUMAS®
Innovation in Weighing

COMPLETE CONTROL FROM PLC OF LAUMAS MULTICHANNEL TRANSMITTERS

Webinar 2021

#LAUMASKNOWHOW

Q&A

The questions of the participants, our answers.

COMPLETE CONTROL FROM PLC OF LAUMAS MULTICHANNEL TRANSMITTERS

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Q The **new functions** illustrated in the webinar are available with the new firmware. Is this also **compatible** with **previous instruments** made by LAUMAS and is it possible to **update** the **weight transmitters** already **installed** to be able to implement them?

A **Yes**. Customers who already own a LAUMAS multichannel instrument can **download** the new firmware **update files** via the LAUMAS service software Instrument Manager.

Q&A

The questions of the participants, our answers.

COMPLETE CONTROL FROM PLC OF LAUMAS MULTICHANNEL TRANSMITTERS

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Q I buy a **new** multichannel **weight transmitter**, is the new firmware already **installed** on the instrument?

A **Yes**. All multichannel instruments purchased after **1/12/2021** are **programmed** with the **new firmware** just presented.

Q&A

The questions of the participants, our answers.

COMPLETE CONTROL FROM PLC OF LAUMAS MULTICHANNEL TRANSMITTERS

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Q Did the **previous firmware** already have the ability to **remotely send** some commands and settings to the weight transmitter?

A **Yes**, previous firmware versions already had some necessary operations to install and manage a weighing system remotely.

With the **new version**, however, the remote **control** is complete in terms of both **configuration** and **installation**.

Q&A

The questions of the participants, our answers.

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Q Has the **new firmware** also been developed for the **TLB Profinet** weight transmitter?

A **No**. The **complete remote control** of the instrument is a feature that has been developed only for **multichannel transmitters**.

Q&A

The questions of the participants, our answers.

COMPLETE CONTROL FROM PLC OF LAUMAS MULTICHANNEL TRANSMITTERS

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Q Where can I find the **release notes** on the new firmware version?

A All the release notes regarding the firmware of LAUMAS instruments will be published in the **coming months** on our website www.laumas.com

Q&A

The questions of the participants, our answers.

COMPLETE CONTROL FROM PLC OF LAUMAS MULTICHANNEL TRANSMITTERS

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Q Are the **manuals** for the new firmware version already uploaded on your website?

A **Yes**. All the manuals are already available on the website's **product page** for each single instrument under “**download**”.

Q&A

The questions of the participants, our answers.

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Q Can I remotely **set** or **change** the instrument's **IP address**?

A With the **Profinet-IO** communication interface, the IP address is always and only set remotely.

This is thanks to the functions available in the **development systems** used for making the PLC software.

Q&A

The questions of the participants, our answers.

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Q How do I **dynamically** pass a **weight setpoint** to the instrument?

A The procedure for writing or reading weight setpoints is described in the **protocols manual** of each instrument, under **SETPOINT PROGRAMMING** (BASIC program).

The manual is available on the product page for each single instrument under “download”.

Q&A

The questions of the participants, our answers.

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Q When a **load cell fails** or is subject to a **malfunction**, can an **alarm contact** be managed that activates a relay output to block the machine?

A **Yes, of course**. There is a specific function, indicated by the word **ALARM**, which can be assigned to one of the digital outputs.

In this way the relay switches when one of these **alarms** is activated:

- Load cell not connected or connected incorrectly;
- Conversion electronics failure;
- Converter in the instrument faulty;
- Weight exceeding 110 % of full scale;
- Weight exceeding the maximum capacity by 9 divisions;
- Maximum viewable value exceeded (value greater than 999999 or less than -999999)

Q&A

The questions of the participants, our answers.

COMPLETE CONTROL FROM PLC OF LAUMAS MULTICHANNEL TRANSMITTERS

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Q For the **load percentages** displayed by the instrument to be correct, must a weighing system be built with multiple load cells all identical?

A When building a weighing system, using load cells of **equal sensitivity and capacity** is a rule we recommend.

To make the **indication** of the load **percentages precise**, some small differences in sensitivity can be solved through the equalization procedure.

A **tutorial** is available on our website that explains step-by-step how to equalize multichannel transmitters.

Q&A

The questions of the participants, our answers.

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Q If I have multiple load cells connected, is there a direct way to **read the weight applied** to each individual load cell, or do I have to calculate it from the total using the respective percentages?

A For **multichannel instruments** that allow managing a **single scale** with multiple weighing points, this function is not yet available.
However, we have decided to develop it in the **new generation** of LAUMAS instruments that are at the design stage.

Q&A

The questions of the participants, our answers.

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Q With the functions available in the new firmware, can I calculate the **weight deviation** to the right/left in an application on a **weighing belt**?

A **Yes**, from the description of the application it seems possible. It is sufficient to install a number of load cells for weighing the belt and, using the **functions** that can be accessed **remotely**, to take advantage of the reading of the load percentages.

Q&A

The questions of the participants, our answers.

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Q Is it **mandatory** to perform the **equalization** procedure for each individual load cell?

A **No**, performing the equalization procedure is not mandatory.
You need to **evaluate** whether or not to perform it **according to**:

- the **operating specifications** of its application;
- the **results** of a specific **test** to evaluate the effects on the calculated weight of any values of a different sensitivity between the installed load cells.

Q&A

The questions of the participants, our answers.

COMPLETE CONTROL FROM PLC OF LAUMAS MULTICHANNEL TRANSMITTERS

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Q Does it make sense to perform load cell **equalization** on an already inherently **unbalanced weighing system**?

A If the system is unbalanced due to operating specifications, there is no need to perform equalization.

Q&A

The questions of the participants, our answers.

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Q Is it possible to see how the **batching program** works and what are the parameters for this function?

A We have planned to carry out **specific tutorials** on the batching program in the coming months, which will be available in the Webinar and Tutorial section of our website.

Q&A

The questions of the participants, our answers.

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Q If I use the **Ethernet/IP** protocol (for example on an Allen Bradley PLC), the supplied **.eds file** is "generic" and therefore the programmer must follow the manual to understand in which byte the command register is passed, or is it **easily recognizable** in the data structure that is seen in the controller tags?

A In Ethernet/IP the .eds file is generic and contains fields that each correspond to one of the bytes exchanged on the fieldbus.

To understand in which byte the **command register** is passed, you then need to refer to the **manual**.

This choice was made for the **data structure** to be **compatible** with the two modes of operation available on multichannel instruments:

- **Managing a scale** with multiple load cells;
- **Reading the conversion points** of the individual analogue input channels of the instrument, unfiltered and uncalibrated;

Q&A

The questions of the participants, our answers.

COMPLETE CONTROL FROM PLC OF LAUMAS MULTICHANNEL TRANSMITTERS

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Q Will the **new functions** be available in the future also on weight indicators or on transmitters other than the multichannel ones?

A **No**, for now the new functions are only planned for the family of multichannel transmitters.

Q&A

The questions of the participants, our answers.

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Q In the future will there be a LAUMAS weight transmitter that will support the **LoRaWan protocol**?

A **Yes**. The LoRaWan interface (acronym of Long Range Wide Area Network – LPWAN) is one of those considered for the development of the new generation of LAUMAS instruments.

It is particularly suitable for **long-distance WiFi transmissions** and is very useful in monitoring applications in **remote areas** where the cellular network is not present.

Q&A

The questions of the participants, our answers.

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Q In **TLB4 Profinet**, is there a **web server** or will one ever be implemented?

A **No**, there is no web server at this time. However, it is a feature provided for in the **new generation** of LAUMAS instruments currently under development.

Q&A

The questions of the participants, our answers.

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Q I have a **TLB4** with **Ethernet TCP/IP** protocol, can I use **Instrument Manager** over the Ethernet network instead of via RS485?

A Currently Instrument Manager can only be used via a **serial connection** between PC and instrument.

The ability to connect and manage the instrument via an **Ethernet network** is one of the features we will be developing in the future.

Q&A

The questions of the participants, our answers.

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Q Which **certified fieldbuses** do you use?

A The fieldbuses validated by the respective consortia according to the reference standards and which we use are:

- CC-LINK
- POWERLINK
- PROFINET-IO