DS-I/O BOX® for Palletank®

DS-I/O BOX®

DIGITAL
SCADA
I/O
BOX

STRENGTHS COMPARED TO COMPETITOR

- Smaller form factor
- **SCADA** integration
- Multinstruments
- Innovative User Interface
- **BIOPAT® MFCS** Compatible

DS-I/O BOX®

Main Focus Point

Modularity	The system is able to manage different kinds of probes, scales and other type of instruments
Flexibility	HMI can manage up to 5 instruments for each type and user choose which one is in use. The system automatically adapts itself
Easy to Use	This system has been designed for being Easy to Use from customer, and also from the Automation perspective
Security	The system is **21 CFR part 11** compliance. Audit Trail log each operation made by specific user.
Connectivity	The system can be used via Web Client. Data can be exported via **OPC UA** or in pdf format via shared folder

Some type of probe and instruments

Load Cells

Mixers

Peristaltic Pumps

Sartocheck

Industrial Terminal

Different process probe

NO ADDITIONAL DISPLAY !!

NO ADDITIONAL DISPLAY !!

Integrated amplifiers allow us to manage the calibration of conductivity and ph probes directly from the HMI

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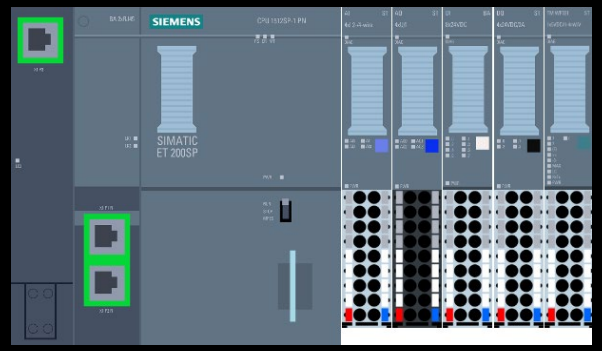
SIEMENS ARCHITECTURE



All the I/O modules are connected directly to the bus of the CPU for faster signal transmission

New generation of HMI panel for a modern UI, more storage capacity and better construction quality

DS-I/O BOX®

ADVANCED REVISION

Industrial pc for further innovations without technological limits

Remote access will allow the user to connect to multiple I/O boxes at the same time

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MULTI INSTRUMENT

Flexibility

User can save up to 5 instruments for each type.

A **privileged** user can switch one instrument to another one by simply clicking on it.

A **dedicated** page allows the calibration of some types of instruments such as pH meters, scales and conductivity meters.

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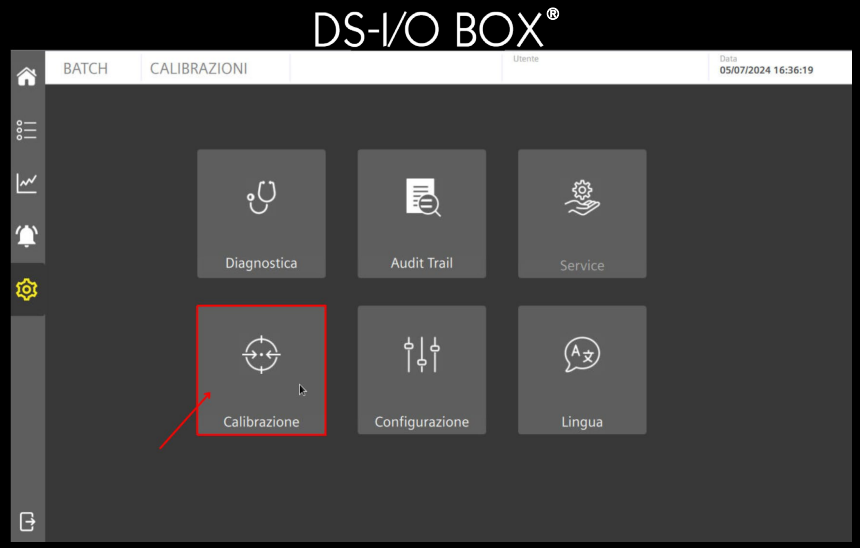

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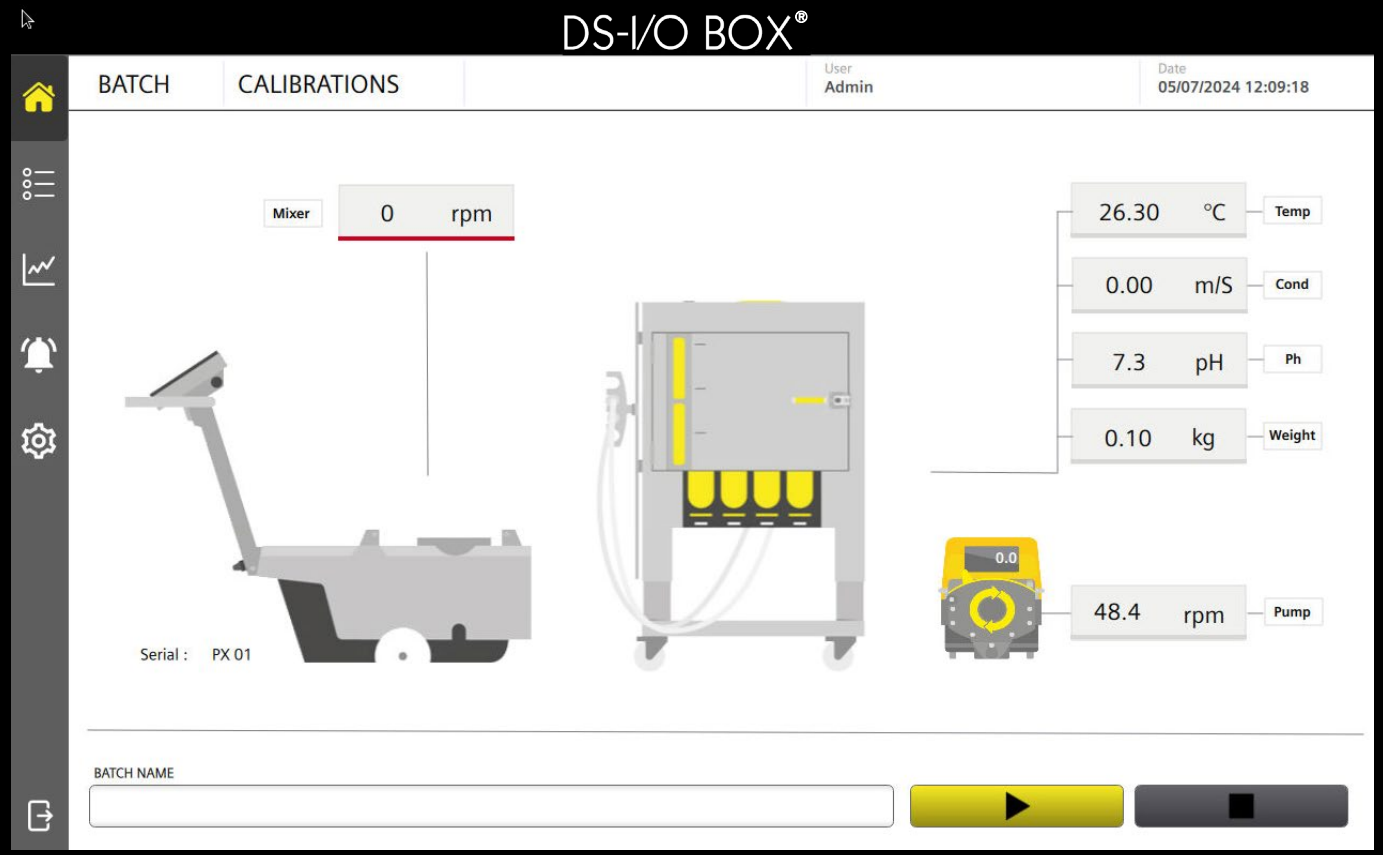
BATCH RECORD

DS-I/O BOX® for PALLETANK® can start a Batch and record all the data that are taken from the configured instruments.

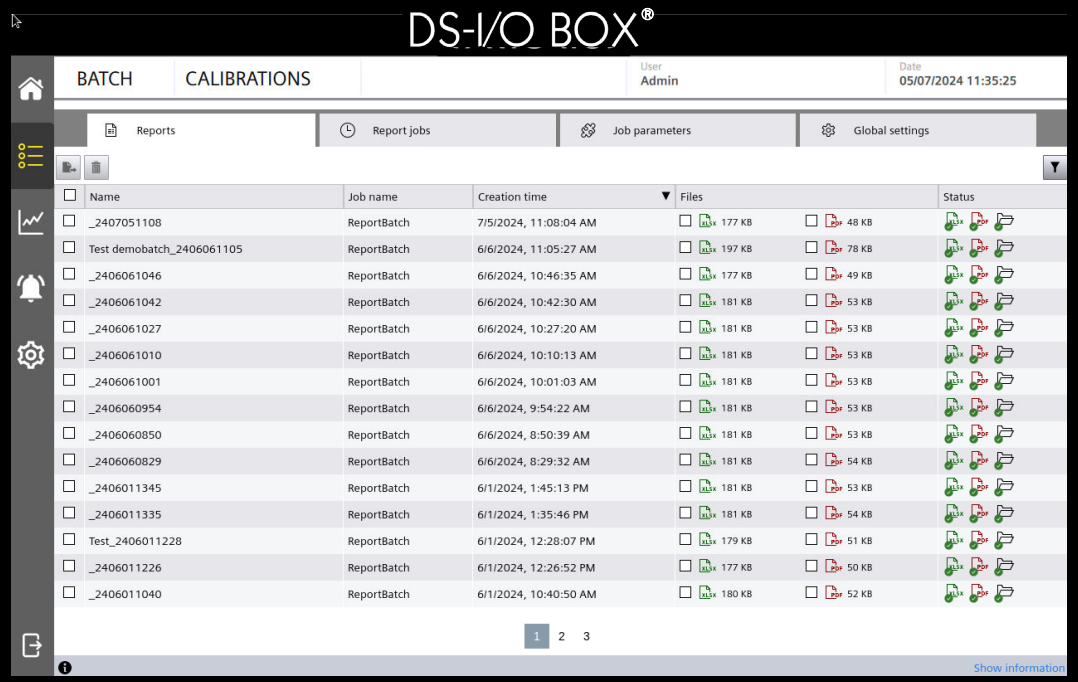


Easy to Use

BATCH REPORT

The user is able to do reporting of a batch.

Report can be saved and exported to external USB memory, into a shared network folder or downloaded from Web Client.



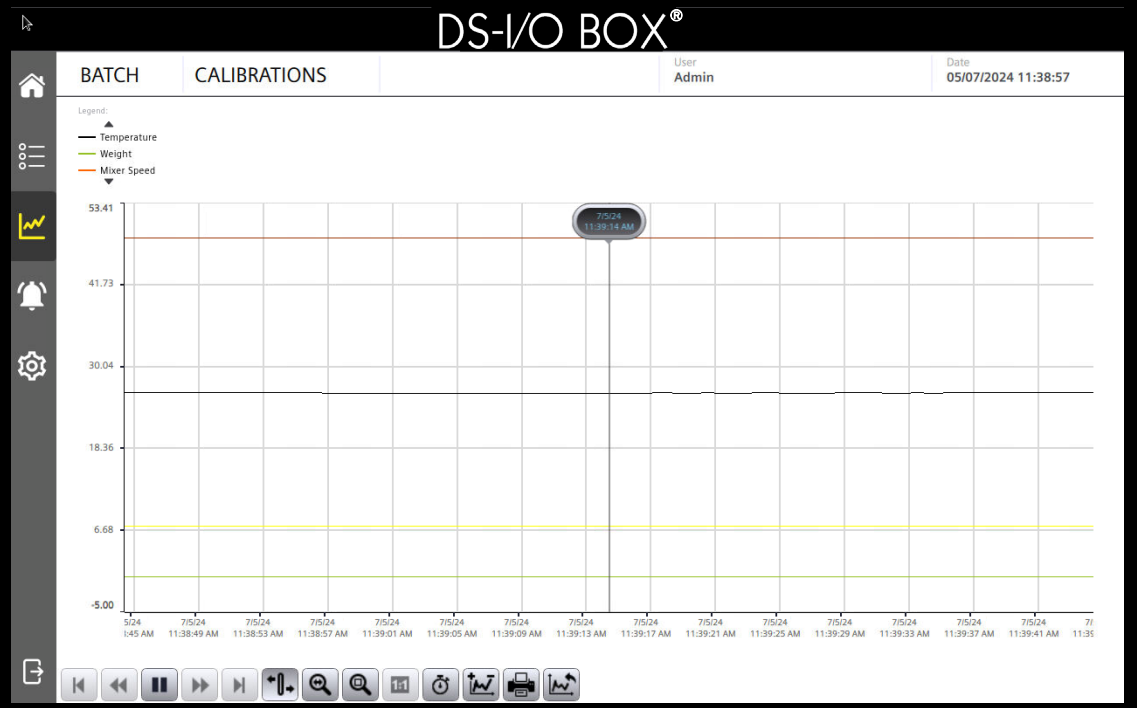
Easy to Use

BATCH VIEW AND TREND

The user will always have a batch and trend view with all its details, also if the batch is still in running.

The user can also put some filters to let him visualize some specific data.

When a batch is running the **DS-I/O BOX®** for **PALLETANK®** can visualize the recorded trend in real time.



Easy to Use

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BATCH ALLARM

The Alarms section is designed to monitor and manage the system alerts generated by the device.

This section provides a comprehensive overview of all active and historical alarms, allowing for quick identification and resolution of problems.

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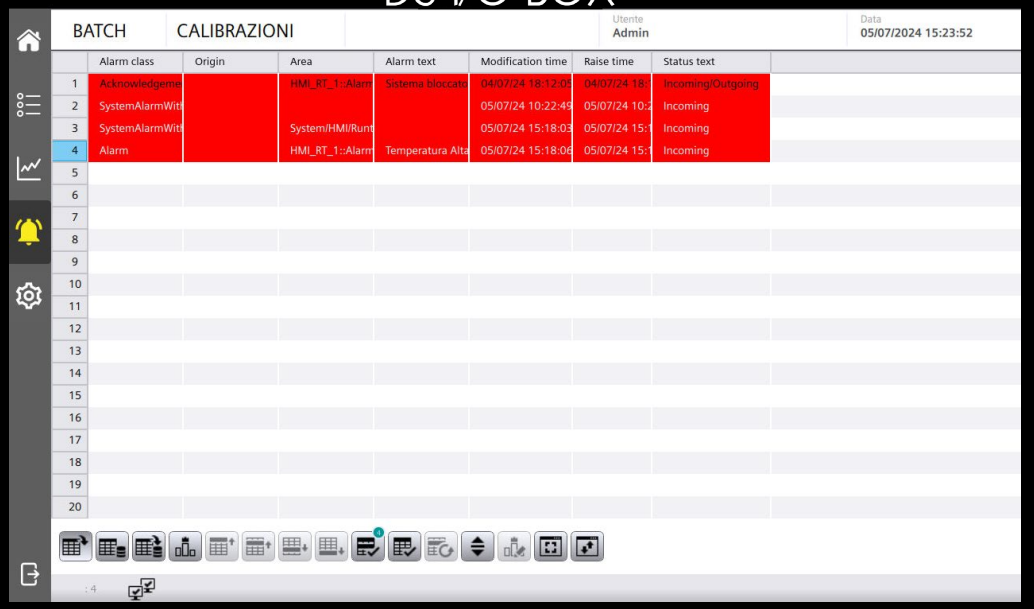

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Easy to Use

USER MANAGEMENT

The **DS-I/O BOX®** for **PALLETANK®** integrates a **User Management Module** that allows to control the access to the system and permit only the authorized users to use that. By default, the following users are set up:

- Admin
- Supervisor
- Operator
- Guest

Security

ACTIVE DIRECTORY MODULE

Customer can use their own Microsoft Active directory to let the **DS-I/O BOX®** for **PALLETANK®** use their users and groups to let users login with their own company credentials.

The Administrator can also manage the groups inside the HMI.

Security

FDA 21 CFR PART 11

Every action made inside the HMI is recorded, in compliance with the **21 CFR Part 11.** Within the **Audit Trail view** an authorized user can see every action performed within the HMI by each user. The Audit Trail can also be exported for auditing purposes.

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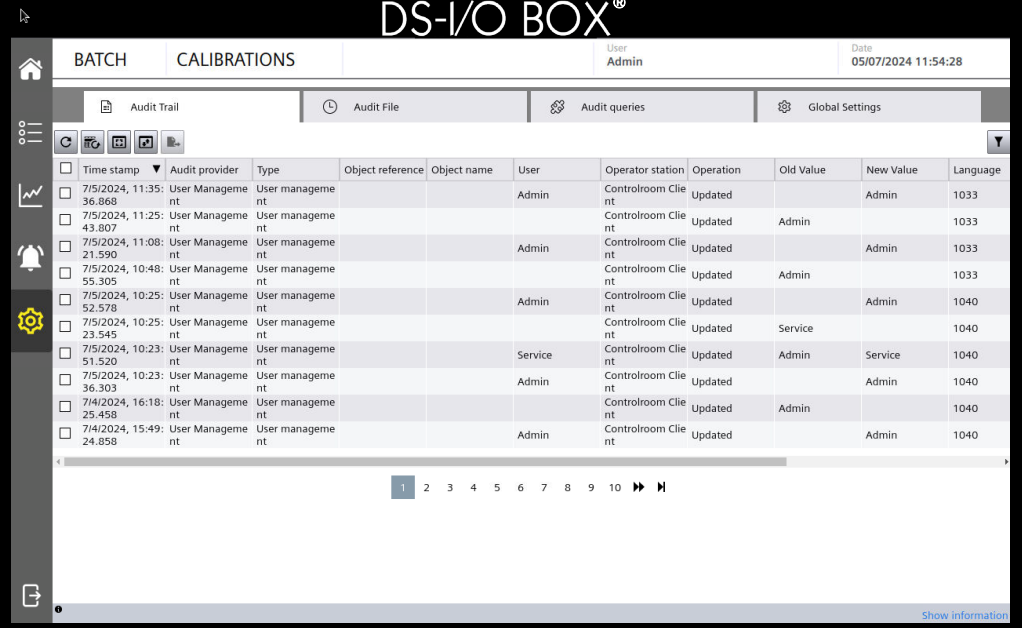

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FDA Part 11 Compliance

Security

OPC UA CONNECTION

The **DS-I/O BOX®** for **PALLETANK®** either supports **SCADA Systems**, variables and alarms can be seen externally via **OPC UA**, with all the **OPC UA** Encryptions supported.

The **DS-I/O BOX®** for **PALLETANK®** system is compatible with:

- **OSI PI** (via OPC UA connector)
- **MFCS 4** or higher
- **DeltaV**

Connectivity

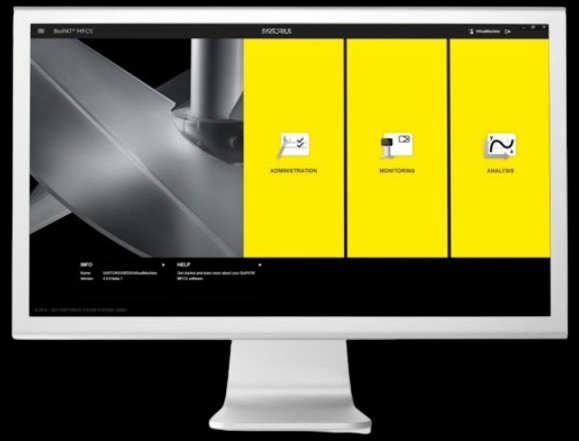
REMOTE CONTROL

It is also possible to connect remotely to the HMI, with a PC or tablet. The **DS-I/O BOX®** for **PALLETANK®** utilizes the **VNC** protocol, that let the customers to control the **DS-I/O BOX®** for **PALLETANK®** even when they are not physically there. Also, the **DS-I/O BOX®** for **PALLETANK®** can be controlled remotely in **GMP** areas, since no internet connection is required.

Connectivity

BIOPAT® MFCS COMPATIBILITY

As mentioned before, this system can also be configured with **BIOPAT® MFCS 4** to read data from the **DS-I/O BOX®** for **PALLETANK®** unit or add the **DS-I/O BOX®** for **PALLETANK®** variables inside of an existing configuration.



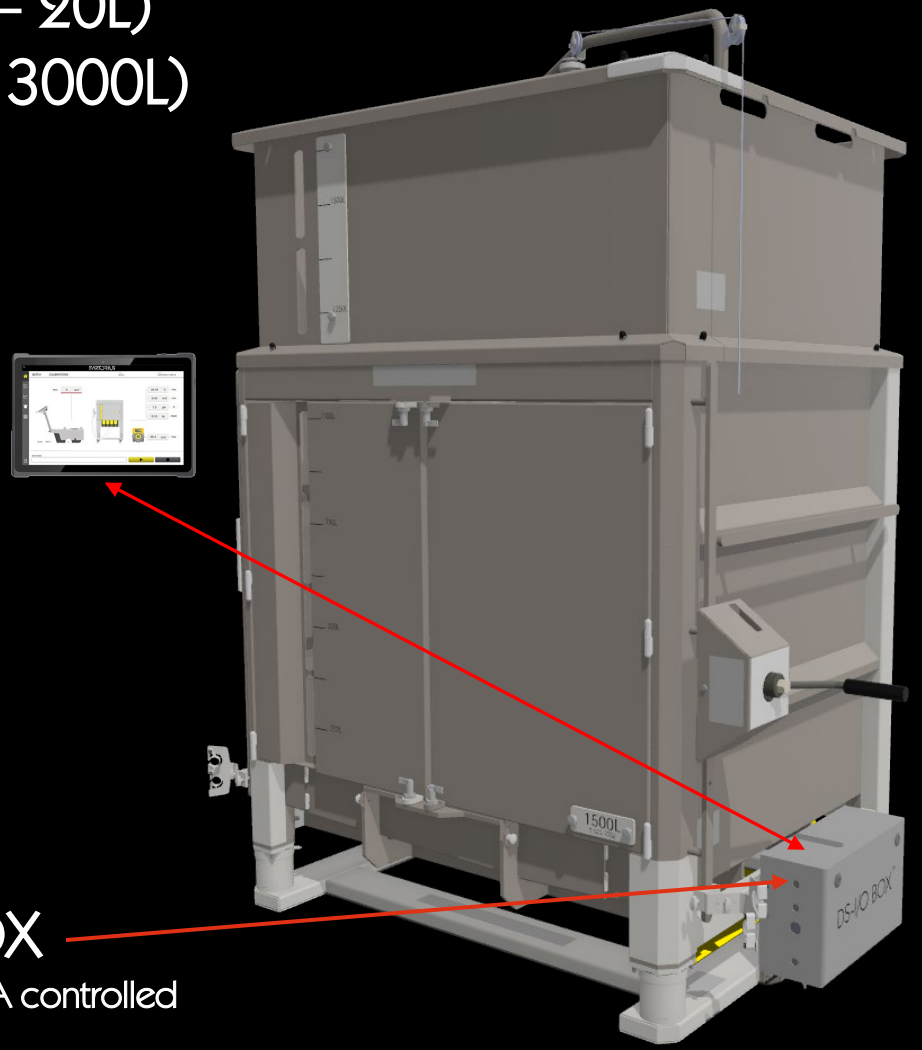
Connectivity

DS-I/O BOX®

The industrial automation taken to a whole new level

DS-I/O BOX® for PALLETANK®

Small volumes Promixer (5L – 20L)
and STD Mix Palletanks (50L – 3000L)



Integrated I/O BOX
with HMI (Tablet) or customer's SCADA controlled

DS-I/O BOX®

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This is an example of **Palletank®** connectivity to an **IP 65** industrial PC/tablet to our **DS-I/O BOX®** for **PALLETANK®**

DS-I/O BOX®

A new concept for connecting multiple instruments for pharmaceutical customers