

DS-I/O BOX®

DS-I/O BOX®

DIGITAL

SCADA

BOX

STRENGTHS COMPARED TO COMPETITOR

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

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

Modularity



Load Cells



Mixers



Peristaltic Pumps



Sartocheck



Industrial Terminal



Different process probe

Modularity

NO ADDITIONAL DISPLAY



NO ADDITIONAL DISPLAY

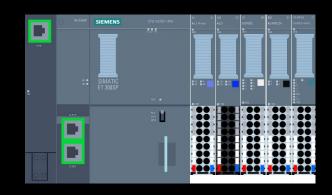




Integrated amplifiers allow us to manage the calibration of conductivity and ph probes directly from the HMI

Modularity

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

ADVANCED REVISION



Industrial pc for further innovations without technological limits



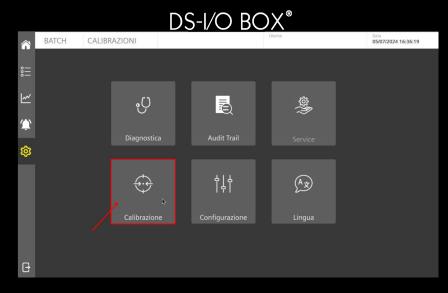
Remote access will allow the user to connect to multiple I/O boxes at the same time

MULTI INSTRUMENT

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.



Flexibility

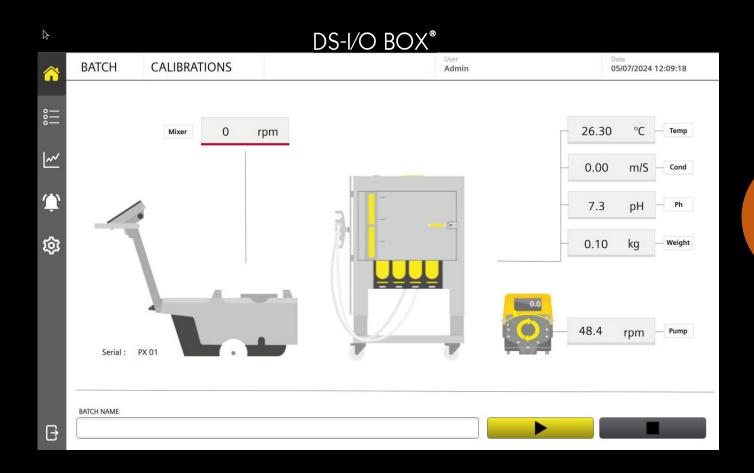




DS-I/O BOX®

BATCH RECORD

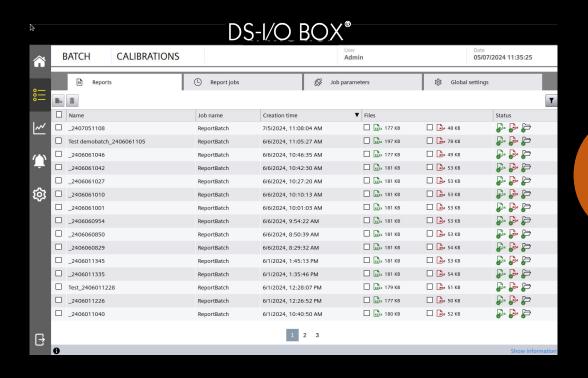
DS-I/O BOX® can start a Batch and record all the data that are taken from the configured instruments.





The user is able to do reporting of a batch.

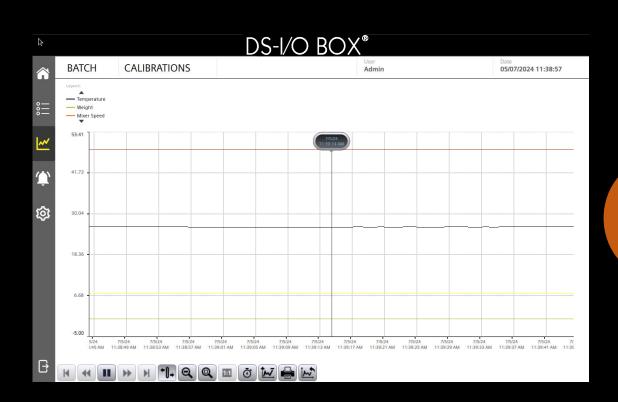
Report can be saved and exported to external USB memory, into a shared network folder or downloaded from Web Client.





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®** can visualize the recorded trend in real time.





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.



2 USER MANAGEMENT

DS-I/O BOX® 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® use their users and groups to let users login with their own company credentials.

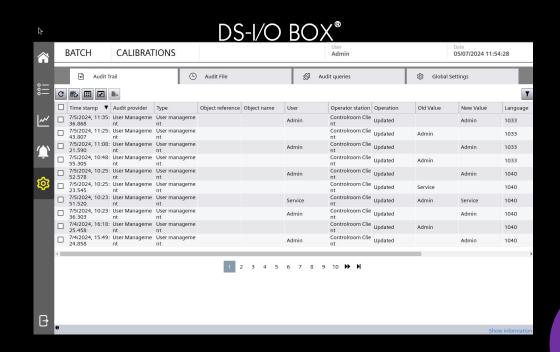
The Administrator can also manage the groups inside the HMI.



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 exported for auditing also purposes.



Security



PC UA CONNECTION

The DS-I/O BOX® 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® System is compatible with:

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

Connectivity

V2 REMOTE CONTROL

It is also possible to connect remotely to the HMI, with a PC or tablet. The DS-I/O BOX® utilizes the VNC protocol, that let the customers to control the DS-I/O BOX® even when they are not physically there. Also, the DS-I/O BOX® 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® unit or add the DS-I/O BOX® variables inside of an existing configuration.



Connectivity

DS-I/O BOX®



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





DS-I/O BOX®

A new concept for connecting multiple instruments for pharmaceutical customers