

# Bioverda SCADA Systems

## Gas cleaning System

The user terminal allows operating and verifying all the functions of dBiOx®-H<sub>2</sub>S, changing the control parameters, checking alarms and preparing the equipment for maintenance operations.

The Control Panel is a touchpad that incorporates a SCADA system. A complementary PC connected to the main PC can also be installed at the owners discretion. Control can then be carried out from any of the two PC units.

There is also an on-line connection to the terminal via internet through Ethernet communication which gives full user control remotely via Anydesk software.

The user interface is a SCADA Indusoft, which allows:

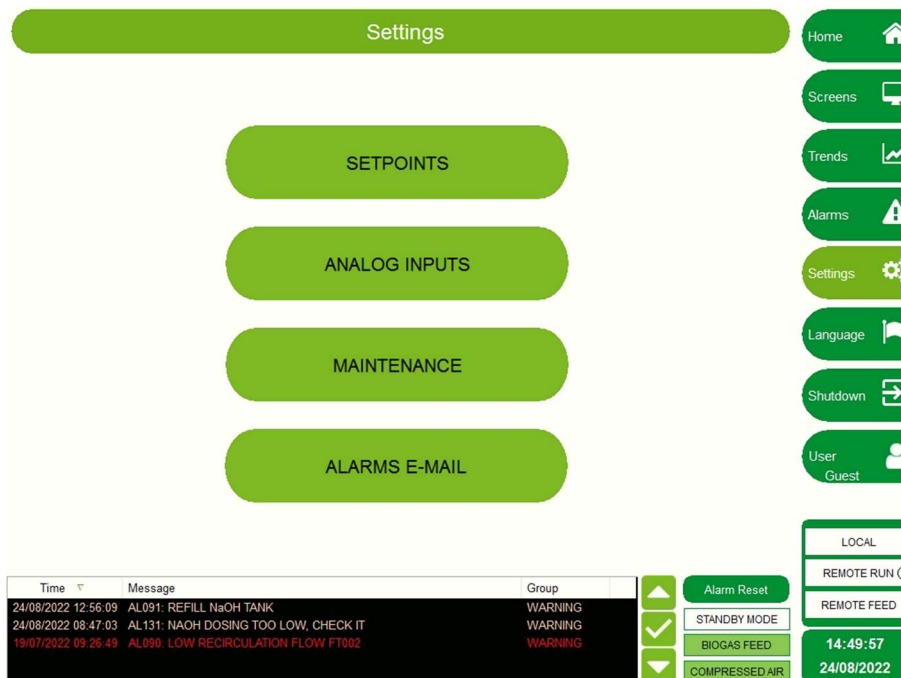
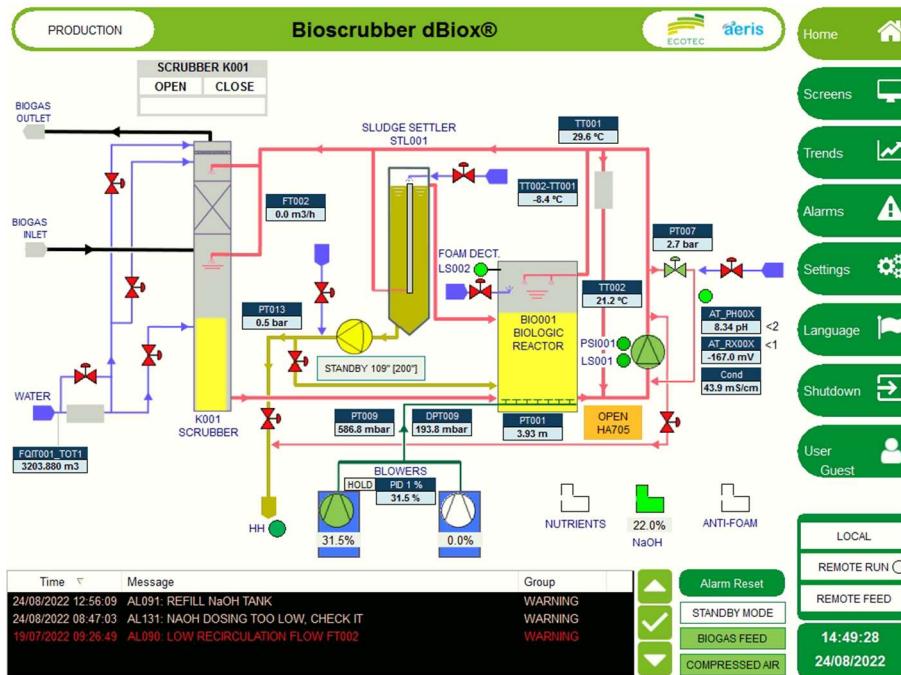
- Visualization of the parameters on a diagram at real-time
- Activation and stop of the process functions (manual or automatic mode) through the touchpad
- Setting the process variables.
- Processing the variables to provide numerical and graphical trends.
- Management of alarms. Both real-time alarms and historical lists of alarms can be displayed.

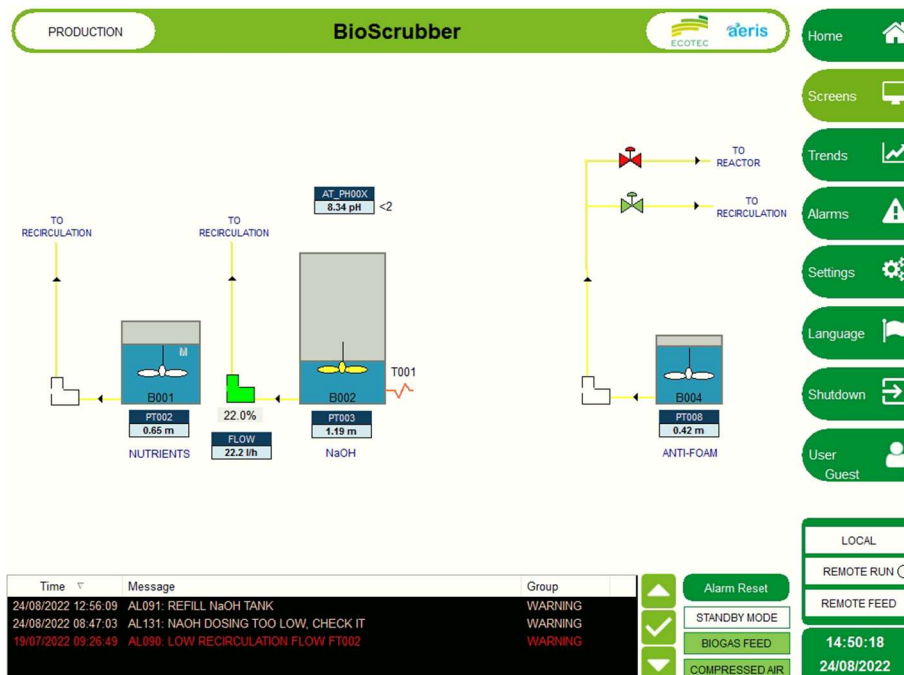
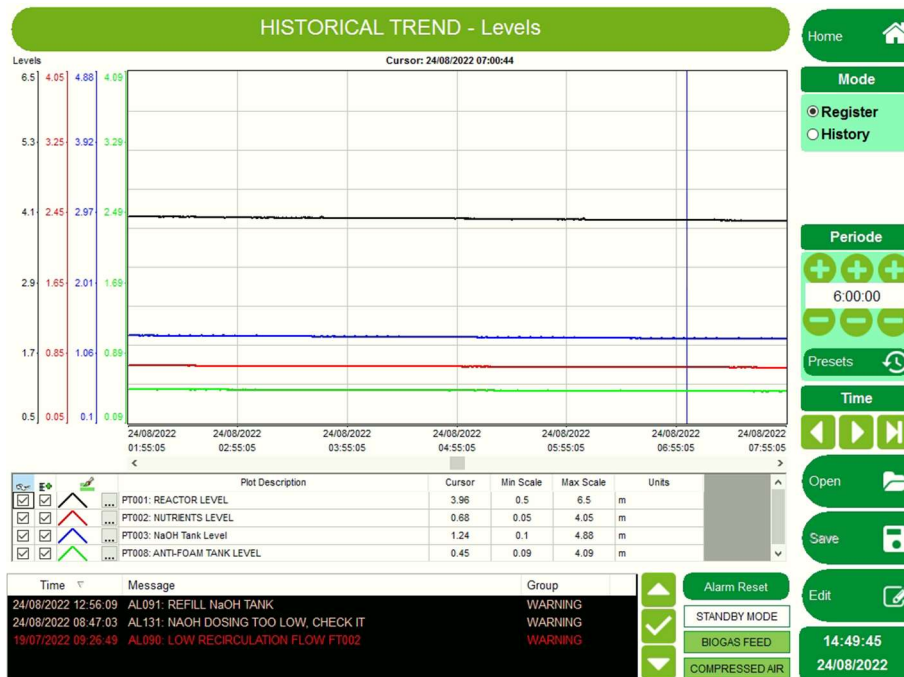
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Time	Message	Group
24/08/2022 12:56:09	AL091: REFILL NaOH TANK	WARNING
24/08/2022 08:47:03	AL131: NaOH DOSING TOO LOW, CHECK IT	WARNING
19/07/2022 09:26:49	AL090: LOW RECIRCULATION FLOW FT002	WARNING

Alarm Reset  
STANDBY MODE  
BIOGAS FEED  
COMPRESSED AIR

LOCAL  
REMOTE RUN  
REMOTE FEED  
14:49:19  
24/08/2022





## Gas Engines

DIA.NE XT & XT4 is the new generation of engine management system used by Jenbacher AG in all of its standard series.

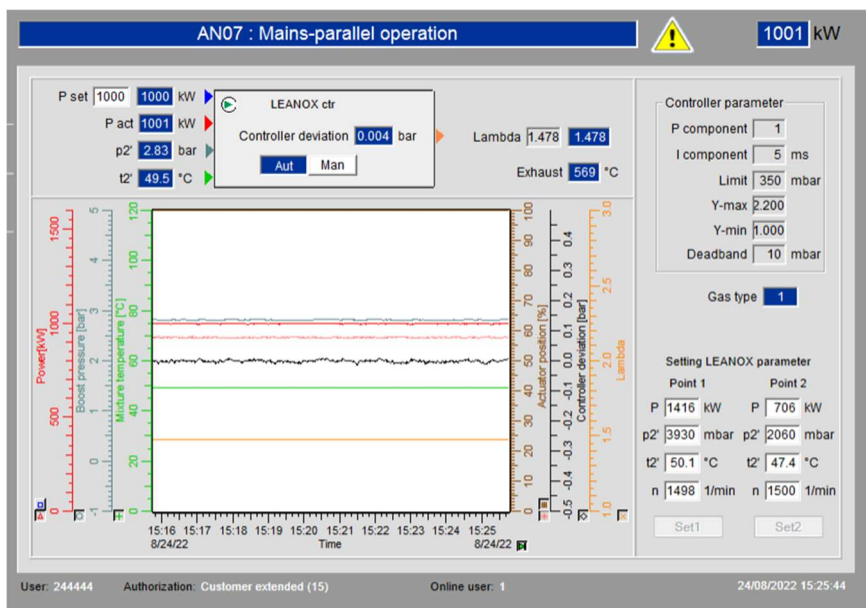
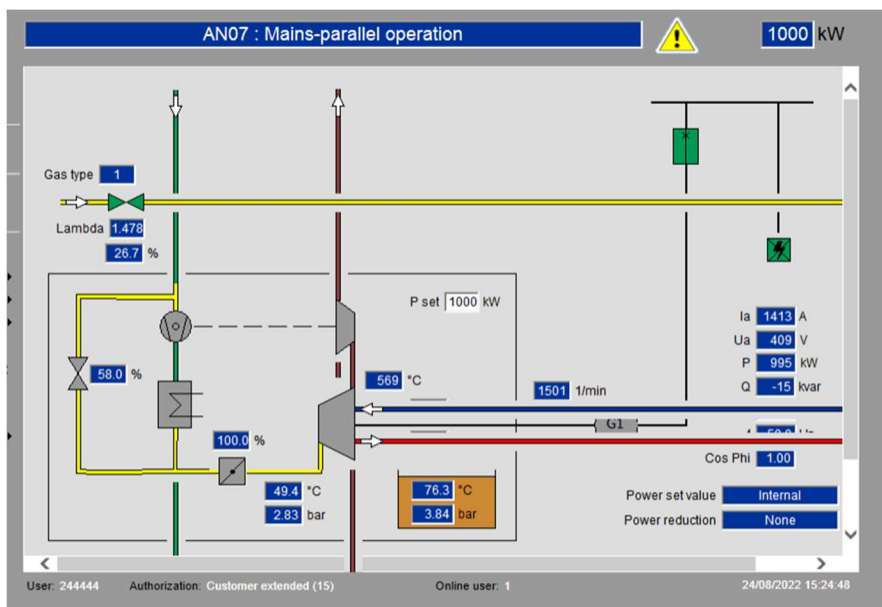
It consists of a control unit, which includes a visualisation unit, in a single device.

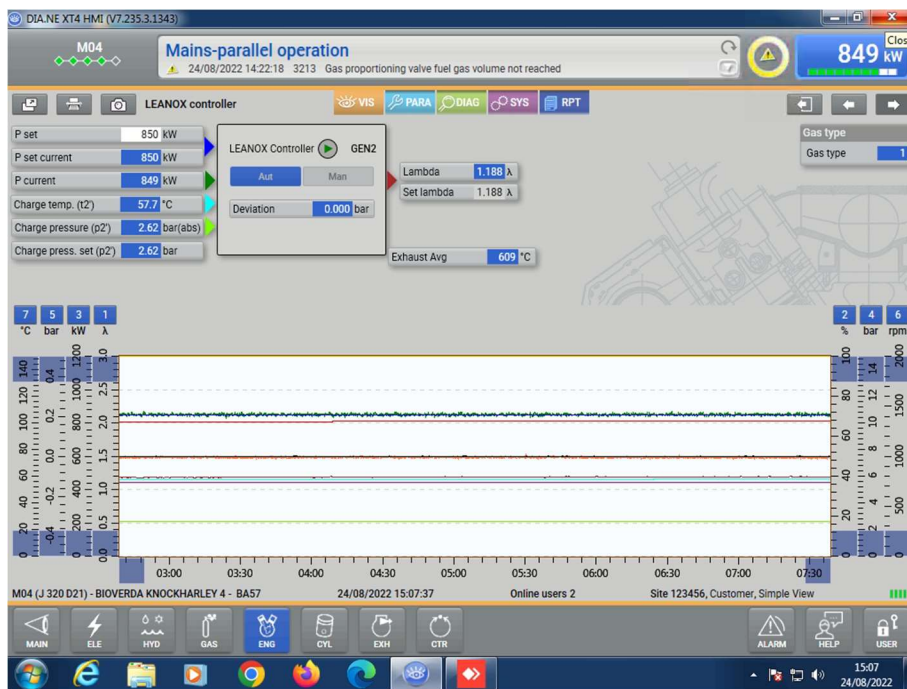
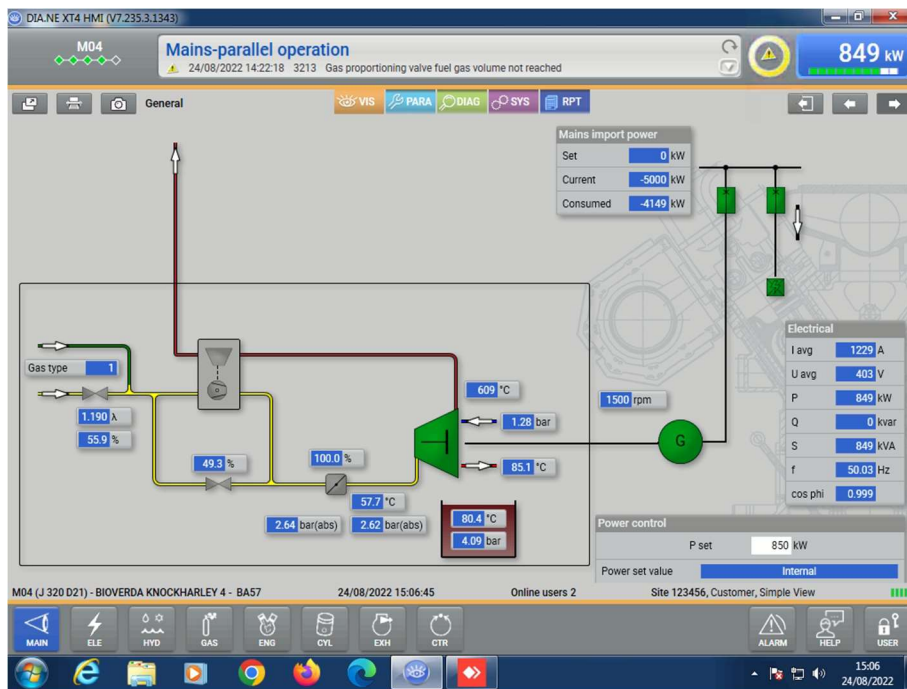
The optional PC visualisation unit DIA.NE WIN provides a central and convenient means of operating the Jenbacher modules, as well as a customer-specific coupling to a higher-order control system.

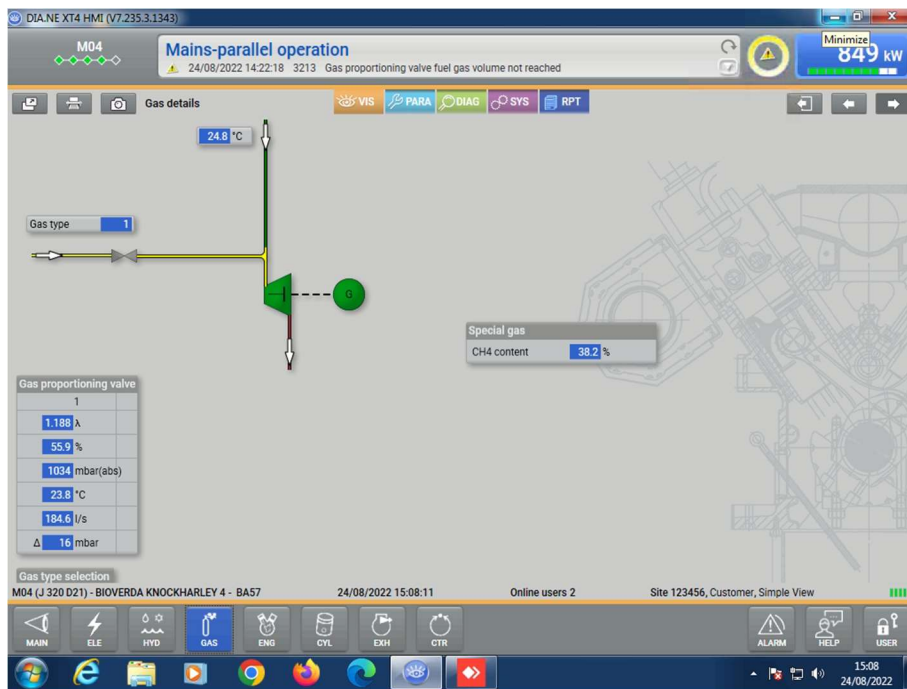
One of the main goals when developing DIA.NE XT was to achieve a perfect combination of powerful and flexible control electronics with a user-friendly operating concept.

The innovative hardware concept is made up of state-of-the-art components and sets new standards in terms of power, functionality and reliability of operation.

Remote access to the system is done through Jenbacher Winserver or VNC which gives full remote control and functionality through direct access to the control HMI.







## Gas Booster/Flares

The booster unit contains all equipment for the transport of the gas through the pipe work. It also includes the monitoring devices and all instrument required for measuring and control.

A variety of measuring devices record the plant parameters and deliver them to the control system in the switch cabinet.

The control system of the HTN is installed in the switch cabinet.

Some units are controlled by a PLC-system, whereas others are controlled by conventional relay control systems and adjustment systems.

The Flare control HMI can be fully accessed remotely Via Anydesk /Teamviewer and all functions and control features are available remotely.

