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Jenbacher DIA.NE XT4

Delivering digital gas engine management

INNIO*'s next-generation control and visualization system—tailor-made by the experts who build your Jenbacher* gas engines—lets you intuitively start, stop, monitor, and control your engine(s) and plant auxiliaries for enhanced performance, efficiency, and profitability. The newly designed Jenbacher DIA.NE* XT4 engine management system is used to control your core engines as well as extended system components. It provides enhanced usability and functionality with a touch panel for easy and comfortable on-site engine control as well as control via a remote connection.

Core engine control

- Easier tuning during commissioning with our advanced auto-tuning algorithms
- Enhanced tracking and statistics functionality with engine startup
- New LEANOX*plus controller to fulfill upcoming emission regulations including NOx monitoring and trending (optional)
- High transient load and speed control with our most accurate model-based control technology

Extended system control

- Mains parallel, island mode and black start operation capability
- Support for the use of various gases (such as natural gas, biogases, and mine gas) as well as gas mixing operation
- Remote control of the engine from your SCADA system
- Exhaust gas treatment (oxidation catalytic and SCR)
- Control of engine-related auxiliaries such as fans, pumps, three-way valves, and coolers
- Grid code functions for active and reactive power demands (such as FSM/LFSM-U/ LFSM-O)

Human machine interface (HMI)

The user-friendly DIA.NE XT4 system simplifies the management, supervision, and control of your Jenbacher gas engine, either on site using the touch panel or remotely from connected Windows-based PCs and tablets.

Key features include:

- Real-time multi-tasking with a user-friendly interface measuring more than 1,000 values, engine conditions, and process data
- Advanced engine alarm management and troubleshooting assistance
- Easily adaptable, automatically generated engine data reports
- 10 GB historical data buffer based on 100 millisecond sampling rate for alarms, engine conditions, user actions, system log, and measurement values history for each engine—with data export capability

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Running the DIA.NE XT4 client on your personal PC or tablet

System requirements:

- Windows operating system (W7, W8, W10)
- Network connection to the DIA.NE XT4 system
- DirectX 9 graphics support
- DIA.NE XT4 client installation and access authorization

Interfaces to external control/ SCADA systems option

Data can be transferred to external systems using the following protocols:

- Profibus DP
- Profinet RT
- Modbus RTU
- Modbus TCP
- OPC DA

Master control/synchronization option

This optional DIA.NE XT4 control system supports the control and synchronization of up to 32 Jenbacher gas engines, including:

- Engine demand control based on electricity, heat, or gas priority
- Master synchronization of the mains circuit breaker
- Emergency power supply and black start capability
- Special applications, such as greenhouse and feeders

Additional operator panel option

One additional touch panel - located next to the engine or in the engine control room - can be used either in parallel or switchable locked operation mode with the main panel.

Engine diagnostic screens

Cylinder-specific engine data bar chart

INNIO* is a leading solutions provider of gas engines, power equipment, a digital platform and related services for power generation and gas compression at or near the point of use. With our Jenbacher* and Waukesha* product brands, INNIO pushes beyond the possible and looks boldly toward tomorrow. Our diverse portfolio of reliable, economical and sustainable industrial gas engines generates 200 kW to 10 MW of power for numerous industries globally. We can provide life cycle support to the more than 48,000 delivered gas engines worldwide. And, backed by our service network in more than 100 countries, INNIO connects with you locally for rapid response to your service needs. Headquartered in Jenbach, Austria, the business also has primary operations in Welland, Ontario, Canada, and Waukesha, Wisconsin, US.

Secure remote connection with myPlant*

Your DIA.NE XT4 system also can interface directly with INNIO's powerful myPlant* online system management tool for simplified forward-looking maintenance planning of your Jenbacher gas engine power plant.

Find your local support online:
www.innio.com/en/company/providers

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