



HOW TO CONNECT weldSense TO YOUR WELDING EQUIPMENT

weldSense allows you to connect and use all of the weldNet® Process Manager functions with any welding equipment on the market.

weldSense – Integrates non-Böhler and legacy equipment

weldSense allows the weldNet® Process Manager to integrate welding machines from other manufacturers, ensuring compatibility and reliable data communication. It also provides a solution for connecting older legacy equipment that lacks digital interfaces, bridging the gap between traditional systems and modern digital tools. With weldSense, you can easily extend the functionality of weldNet® to cover a wider range of equipment without compromising on data accuracy or process efficiency.

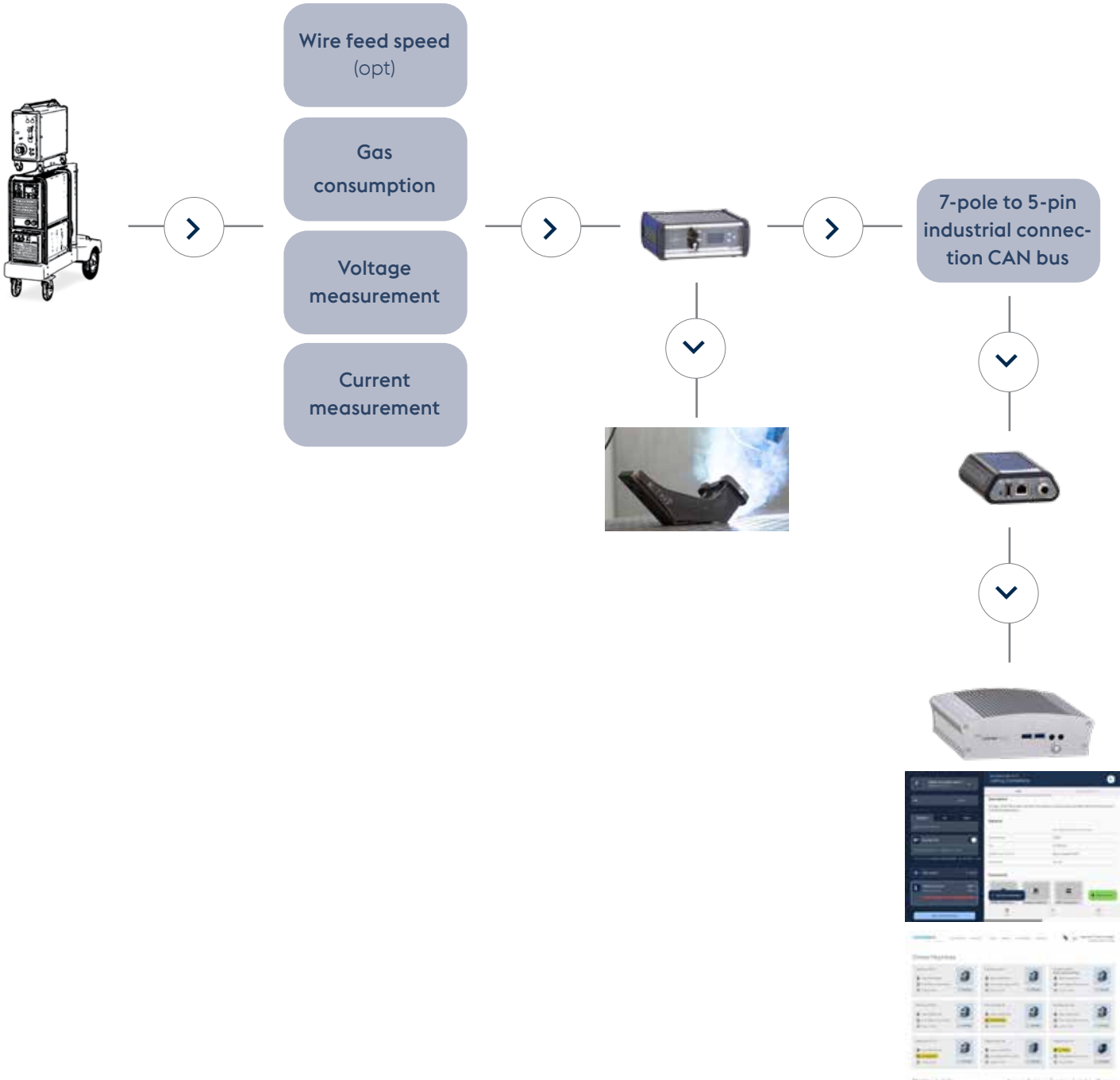
What data can be read with weldSense?

weldSense can read the welding data of any welding equipment on the market, i.e. calculate voltage, amperage, gas flow, wire feed speed (optional), and deposition rate.

Do you want to measure your wire speed automatically?

Instead of mathematical calculations, you can optionally add an external wire feed speed sensor to measure the wire feed speed automatically and transfer the information to the weldNet® Process Manager.

How to set up the connection:



weldNet® PROCESS MANAGER HARDWARE

Hardware	Description
weldHub	
 Storage: 1 TB SSD LAN: 2x RJ45 @ 10/100/1000 Mbit/s Power supply: DC-Input 8-24V Dimensions: 148 x 57 x 157 mm	weldHub – The Brain and Connectivity Hub weldHub acts as the connectivity core of the weldNet Process Manager solution. Within your isolated company network, it links welding equipment via weldSync on the one hand and the interfaces of the welding engineers (Admin App) and welders (Welder App) on the other, enabling centralized control and streamlined data flow throughout the entire welding environment. All data coming from each weldSync connected to the Process Manager is stored locally on the weldHub. Your company network ensures that data is not able to go outside of the specified network and that it finds its way to the weldHub. By ensuring smooth communication between components, you will always have access to live welding activities, equipment status, personnel activities, reports, and any other moving parts within your projects. » High-capacity storage: 1 TB SSD for comprehensive data logging and local data storage. » LAN port: 2x RJ45 @ 10/100/1000 Mbit/s for reliable wired network connectivity. » Minimal power consumption: DC-Input 8-24V. » Compact design: Dimensions of 148 x 57 x 157 mm, making it easy to install and integrate into existing setups. » On-site solution: Ensures data privacy by storing all welding data locally without relying on cloud services.
weldSync	
 Storage: 128 GB I/O CAN-BUS-Ethernet TCP/IP-USB Main supply: via CanBus from Böhler Welding equipment Dimensions (approx.): Desk: 140 x 100 x 40 mm WS: 120 x 230 x 40 mm DS: 130 x 105 x 35 mm	weldSync – Data Capturing and Synchronization weldSync ensures that all parameters are synchronized and precisely coordinated on the equipment, and converts these parameters into a format that weldHub can easily process. Are you concerned about remote location welding? You needn't be – weldSync comes with on-board storage that can securely store up to two weeks of continuous offline welding data. Once the remote job is complete, simply reconnect weldSync to the system, and all the recorded data is automatically transferred to the Process Manager, ensuring reliable integration and full documentation. » Onboard storage: 128 GB internal memory for local data storage and synchronization. » Connectivity: Ethernet TCP/IP for communication with weldHub, and a USB interface for basic data export; sufficient to download the eight key welding parameters (current, voltage, gas flow, wire speed, motor 1 current, welding speed, heat input, and deposition rate) in .csv format that meets your needs. Compact and adaptable: Available in three form factors to fit different operational needs: » Desk unit: 140 x 100 x 40 mm » Wall-mounted unit: 120 x 230 x 40 mm » DIN rack unit: 130 x 105 x 35 mm » Hassle-free integration: Direct power supply via CAN BUS from Böhler Welding equipment, minimizing cabling and power requirements.
weldSense	
 Optional for connecting other branded equipment Sensors: current / voltage / gas flow / speed (opt) / deposition rate I/O CanBus Main supply: 1 x 230V AC Dimensions: 250 x 195 x 105 mm	» Sensor integration: Measures key parameters such as current, voltage, gas flow, optional wire speed, and calculates deposition rate. » Connectivity: CAN BUS interface for communication with weldSync. » Power supply: Operates on a 230V AC power supply, providing stable performance. » Durable build: Dimensions of 250 x 195 x 105 mm for industrial-grade durability and reliability.

