

SOLVOX[®] in control

Flexible control unit for oxygen dosing



SOLVOX in control

Introduction SOLVOX in control is a specially designed injection control system for dosing oxygen to Linde's oxygenation systems, such as our SOLVOX dropin, oxycloud and venturi.

- Benefits**
- Flexible control unit
 - Optional bus connection for remote control and monitoring
 - Easy to install and operate
 - Built-in pump starter
 - Gas safety features

Description SOLVOX in control is a flexible injection controller designed to monitor, activate, and control your Linde application. It will control your system the most optimal, safe, and efficient way. It may also be interfaced with any top system through Modbus TCP protocol. This gives customers access to most of its parameters and thereby full control of your Linde oxygenation system.

SOLVOX in control can be used in applications for land-based and sea-based fish farming. SOLVOX in control can be tailored to your application.

Enabled for the following 4–20 mA or Modbus TCP inputs:

- Oxygen saturation
- Temperature
- Gas flow
- Gas pressure
- Water flow

These inputs are used for controlling a proportional valve in a local or centralized SOLVOX dosing cabinet. SOLVOX in control has logging and alarm functions.

Installation

SOLVOX in control cabinet can be installed in harsh environments due to its IP66 rating. When powered up, it will handle ambient temperatures from -30 to +30°C. All inputs are 4–20 mA or Modbus TCP. SOLVOX in control can be used as a pure injection controller, but it can also control pumps rated 2.2–7.5 kW, 400–440 V and 50–60 Hz using a built in direct online contactor (DOL) or soft starter.

Spring terminals are pre-provisioned for all power and signal terminations except the connection of the O₂ probe, which is connected to a socket at the bottom of the cabinet, and the ethernet connection, which uses a network connector inside the cabinet.

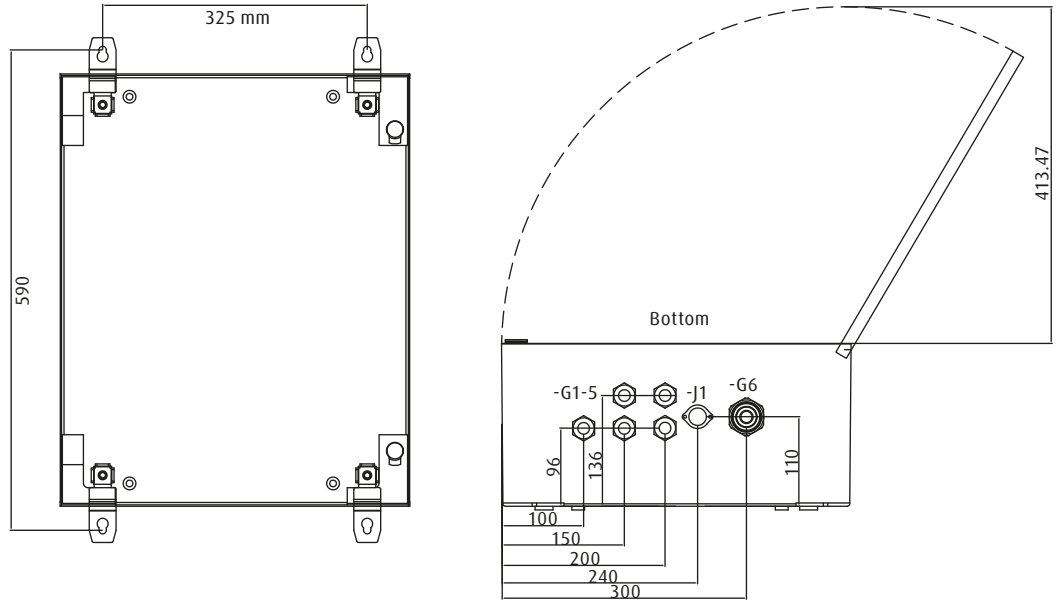
System integration

Once installed and connected with the desired inputs, SOLVOX in control is ready to be set up for your applications. The operator can set target values, regulator type, safety interlocks and other efficiency and safety parameters. The operator can choose between the following operating setpoints:

- O₂ % saturation
- O₂ mg/l based on measured O₂ concentration
- O₂ mg/l based on measured m³ water flow

Technical Data

Cabinet size (W x L x D)	430 x 531 x 210 mm
Weight	16 kg
Ambient temperature	-30 to +30°C
Voltage	400–440 V
kW	2.2–7.5 kW
IP Rating	66
Ik max	10 kA



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