ROMBO X

Retrofitting with industrial sensors

Part of the Rombo product line, we have Rombo X: A plug&play non-intrusive gateway for industrial sensors. Rombo X is capable of connecting industrial grade current loop (4-20mA) and voltage sensors (0-10V). Next to that, Rombo X can connect via Modbus to most PLCs to make sure any factory can be made smart!

Use Case - Temperature and Pressure Monitor:

The process of brewing beer is almost science. The correct temperature, pressure and timing are crucial for the perfect outcome.

Early 2021 we've installed Rombo X. The temperature and pressure sensors where already used and connected to a display in the brewery itself. By means of Rombo X gateway we have a non-intrusive way to read out the sensor values and make them available in Insight. Plug&Play with their existing infrastructure.

The installation added quite some additional value as:

- The staff doesn't need to be on-site anymore to check the temperature and pressure to start a new action in the process

- Due to thresholds defect valves or coolers can be noticed immediately and proper action can be taken without wasting a batch

- With the gathering of historical data the brewery can determine with the measured parameters what made a good batch of beer

ROMBO X

Radio Technology	LTE-M	NB-IOT	LEDs	Green (external Power) Green/Red (Status) Blue (Data transmission)
Radio Bands	1*, 2, 3, 4, 5, 8, 12, 13, 18, 19, 20, 25, 26*, 28		
Enclosure	DIN-Rail 6 modules	IP-20	External Sensors	I2C	4-20mA current loop
Power Supply	8V-42V DC	Power Consumption	0.25W at 230V AC
Temperature Sensor	-20 - 65°C	Payload protocol	IPSO
External Sensors	6x 4-20mA	Send Interval	Configurable	on event
	2x 0-10V	Terminal Connectors	2x 8A 1.5mm for the digital input 2x 16A 1.5mm2 for the relays 1x 16A 1.5mm2 for the mains
	1x I2C		
	1x RS485		
Inputs	2x galvanically isolated	configurable NC/NO	Dimensions	107.60mm x 89.70mm x 60.70mm
Outputs	1x latching relay	8A	250VAC CPDT		
Operating Temperature	-20°C - +65°C		

AnyWare Insight

Insight is an application intended to provide insight in your assets. It's the starting point of Asset Management. Whether your assets are smart or still need to get connected , Insight provides flexible overviews to quickly provide you with all the information you need

Insight allows you to show all relevant asset information in 1 place. It allows you to perform in-depth analysis of your data but also provides clear and simple overviews.

Dashboard functionality allows users to create asset overviews to their needs and show it full screen in for instance a control room or video wall.

Some of the main features are:

- View actual and historical sensor data

- Detailed Asset information like IDs, customers, suppliers and custom fields

- Location based information

- Data correlation between multiple assets and multiple sensors

- Monitoring of assets

- Alarms and notifications

- Rule based actions (If-this-then-that)

- Custom Dashboards

- Custom data calculations