



IQ-Link

Maintenance-Free Performance



Product Overview

IQ-Link is an intelligent solution for precise detergent dispensing into a warewashing machine or a conveyor tunnel dishwasher, with minimal maintenance requirements.

All dosing operations are fully monitored and controlled through a **cloud-based platform**, giving operators real-time insights and remote access from any internet-enabled device.

The system features a built-in dosing controller with a **GPRS or Wi-Fi module** for cloud connectivity and an **RF module** for wireless communication with RF-enabled sensors.

A flow **meter technology** and KNF **motor-driven PTFE membrane pumps** guarantee accurate dosing and proof of delivery. The system can integrate **conductivity, temperature, and product level sensors** to monitor and automatically adjust key process parameters for optimal and consistent results.

Key Benefits

- Real-time monitoring and control via the online platform
- Clear visualization, trends, and notifications
- Reliable cloud connectivity via 4G or Wi-Fi
- High dosing accuracy and proof of delivery
- Low-maintenance and reliable performance
- Remote calibration and programming



KNF Motor-Driven Diaphragm Pumps

The GOGO Dosing System for Single Laundry is equipped with **3 KNF motor-driven diaphragm pumps**, delivering:

- Exceptional dosing accuracy for consistent results
- Great adjustability of flow rate for process control
- Significantly reduced maintenance vs. peristaltic systems
- Fewer on-site visits and inspections required
- Chemical-resistant materials for aggressive products
- Less frequent servicing, reducing labor and travel costs
- Minimized downtime and lower operational costs

[KNF Diaphragm Liquid Pump FF20 KT](#)



Technical Specifications

Hardware & Connectivity

	Parameter	Description
Physical specifications	Dimensions	27 (H) × 29 (W) × 8 (D) cm
	Weight	1.70 kg
	MountingW	all
	Power supply	25 W; 100- 240 VAC, 50/60 Hz (integrated)
Connectivity	Internet connectivityD	ata module slot (supports 2G/3G/4G or Wi-Fi modules)
	RF connectivityR	F module slot (supports wireless sensors)
	Wireless infrastructure	Supports integration of wireless signal modules and sensors (via RF module)
	Machine connectivityS	ignal inputs
	RS485 serial port1	port
Operational capacity	Capacity	1 dishwasher (console or tunnel)
	ProductsM	ax. 3 products
	Pumps3	pumps (24V DC with PWM speed control)
	Signal inputs (galvanically isolated)	3 signal inputs (voltage ranges: [12–48] V, [48–230] V)
	Flow meters	Max. 3 low-flow PTFE flow meters
	Inductive probe	1 inductive probe input
	Conductive probe	1 conductive probe input
	Temperature sensor	2 temperature sensor inputs (PT100)
	Low-level sensor	Max. 3 suction lances with level switches (empty/full)
	Wireless level sensor	Max. 3 suction lances with wireless level sensors

System Components (1/2)

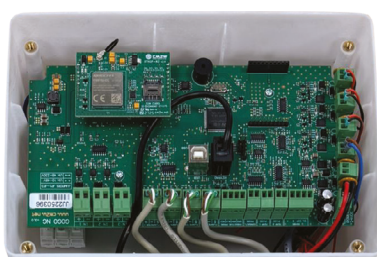
	Parameter	Description
Pumps	Type	KNF Diaphragm liquid pump FF20
	Flow rate (max.)2	10 ml/min
	Pressure (max.)3	bar (rel.)
	Suction height (max.)	2.5 m H ₂ O
	Valve material	FFKM
	Diaphragm materialP	TFE
	Pump head material	PP
	Motor type	Brushless DC
	Permissible ambient air	-5 to 60 °C
	Permissible liquid temperature5	to 80 °C
Flow meters (optional)	Type	Low-flow turbine PVDF flow meter
	Measuring principleP	addle wheel
	Flow range	0.015 – 0.9 L/min (H ₂ O, 20 °C)
	Flow meter materials	PP / PVDF / FKM
	Pulse rate	Approx. 11,500 pulses per liter (H ₂ O at 20 °C)

System Components (2/2)

	Parameter	Description
Flow meters (optional)	Acceptable viscosity (v)	0.5 – 20 mPas
	Operating pressure-	0.7 – 4 bar
	Burst pressure	>15 bar (at 20 °C)
	Temperature range	-10 °C to +90 °C
Tubing	Tubes material	FEP
	Tubes diameter	Ø 4 mm ID / Ø 6 mm ED

Intelligent Dosing & IoT Features

	Parameter	Description
Dosing & calibration	Dosing methods	<ul style="list-style-type: none"> • Fixed flow rate dosing – based on pump flow rate • Flow sensor dosing – based on real-time flow sensor measurements • Conductivity dosing – based on real-time conductivity measurements using inductivity sensor or conductivity sensor
	Scheduled dosing	Automated drain dosing of enzymes at predefined intervals or specific times of the day
	Dosing by input signal	<ul style="list-style-type: none"> • Dishwasher cycle dosing – dosing at the start of each cycle • Tunnel dishwasher dosing – periodic dosing for extended cycles • Relay dosing – dosing based on signal presence
	Calibration	Manual (keyboard) or fully remote calibration and priming
IoT platform features	Access	24/7 in real time
	Reporting	<ul style="list-style-type: none"> • Detergent consumption • Flow rate monitoring • Conductivity monitoring • Monitoring of water tank filling and draining • Tank and/or boiler warm-up (via external PT100 sensor) • Dosing temperature monitoring (via external PT100 sensor) • Cost tracking
	Error notifications	Filtered alerts with customizable levels, assigned to designated personnel for rapid response and predictive maintenance
	Input signals logT	racking of input signal logs registered by the system
	Dishwasher ready monitoring	<ul style="list-style-type: none"> • Monitoring of water tank filling and draining • Tank and/or boiler warm-up (via external PT100 sensor)
	Dosing temperature monitoring	Supported (via external PT100 sensor)
	Offline programming	Device programming in offline environments
	Copy wizardD	uplication of settings and calibration data across devices



Monitoring via the CM2W IoT Platform

Proof of delivery

Detailed table view of program execution data, incl. dosing volumes, product costs, cycle duration, temperature and more.

Event: Sensor dosing		Event source: Conductive probe 1		Product quantity: 20.50 ml	Cost: 0.02 EUR	13:00:31 13:00:22 8s
Product	Flow Rate	Product quantity	Cost			
Chemical 1	137.1 ml/min	20.50 ml	0.02 EUR			
Temperature sensor	Temperature	Dosing concentration percentage				
PT100 sensor 1	61.7 °C	106 %				
PT100 sensor 2	73.4 °C	N/A				

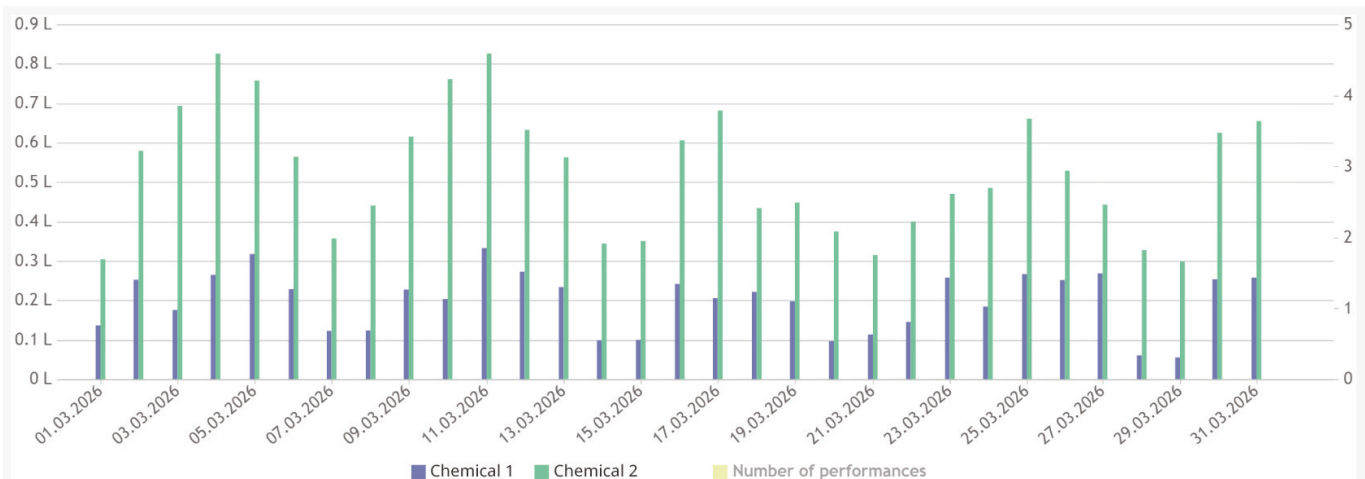
Conductivity level chart

Graphical view of conductivity and temperature level changes over a selected time period.



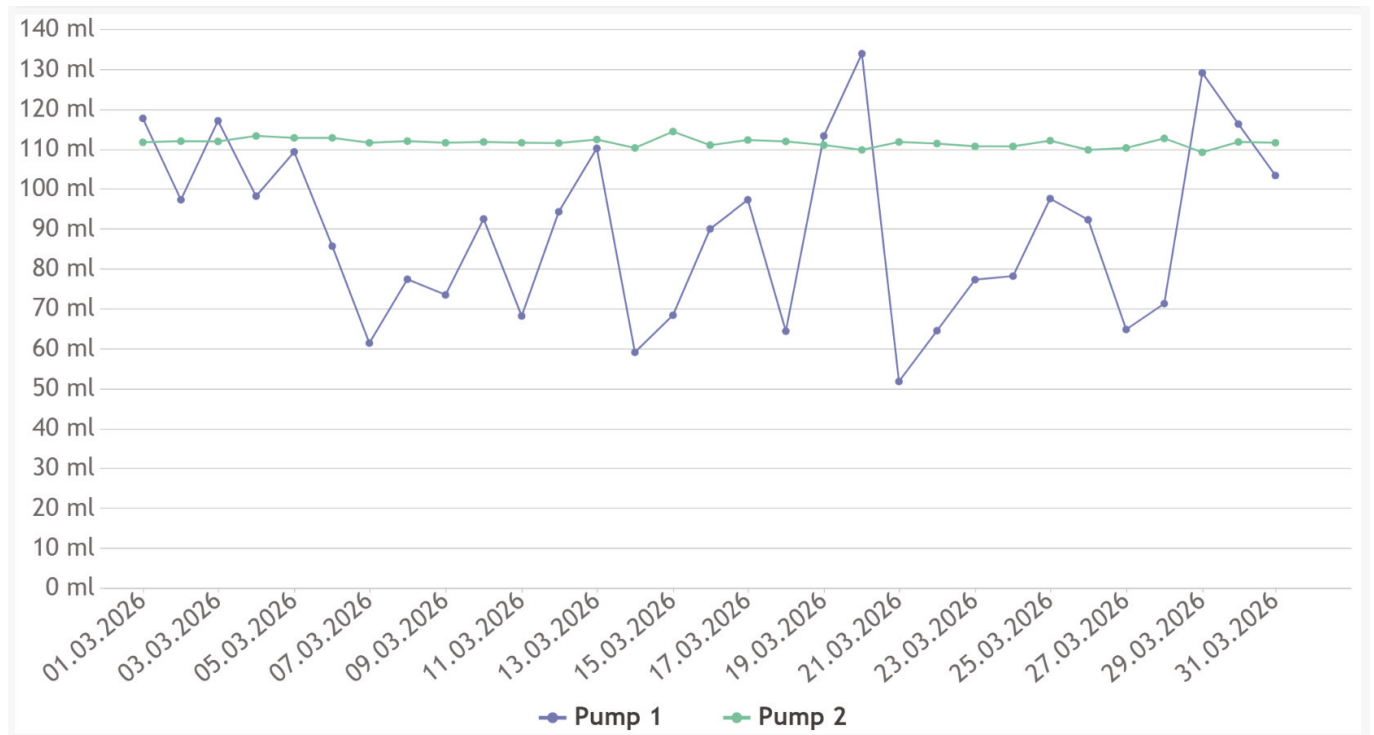
Product consumption chart

Graphical representation of product consumption over a selected time period.



Flow rate chart

Graphical representation of the pump flow rate over a selected time period.



Error tracking chart

Detailed table view of system-generated errors by type over a selected time period.

Device	Flow rate errors	Valve checks	Program terminated	Program execution errors	Calibrations	Temperature errors	Low product	Misc errors	All errors
47	43	0	0	0	2	0	0	0	45
48	20	0	0	0	0	0	0	0	20
49	134	0	0	0	0	0	0	0	134
50	10	0	0	0	4	0	0	0	14
51	43	0	0	0	0	0	0	0	43
52	218	0	0	0	0	0	0	0	218

