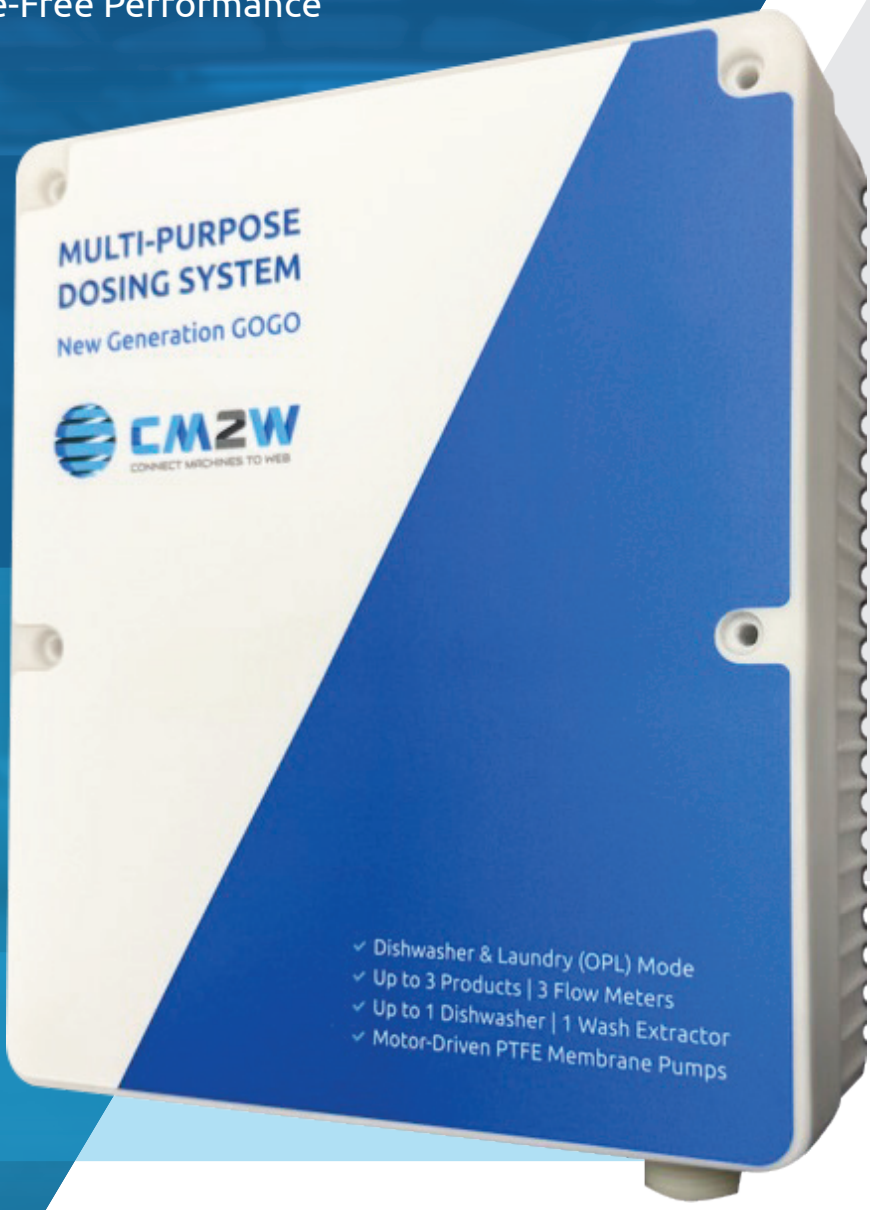
CM2W
CONNECT MACHINES TO WEB

MFP Series

Maintenance-Free Performance



GOGO NG
for Single Dishwasher

New Generation GOGO

Product Overview

GOGO Multi-Purpose Dosing System 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 CM2W IoT 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
	Mounting	Wall
	Power supply	25 W; 100- 240 VAC, 50/60 Hz (integrated)
Connectivity	**Internet connectivity**	Data module slot (supports 2G/3G/4G or Wi-Fi modules)
	RF connectivity	RF module slot (supports wireless sensors)
	Wireless infrastructure	Supports integration of wireless signal modules and sensors (via RF module)
	Machine connectivity	Signal inputs
	RS485 serial port	1 port
Operational capacity	**Capacity**	1 dishwasher (console or tunnel)
	Products	Max. 3 products
	Pumps	3 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)

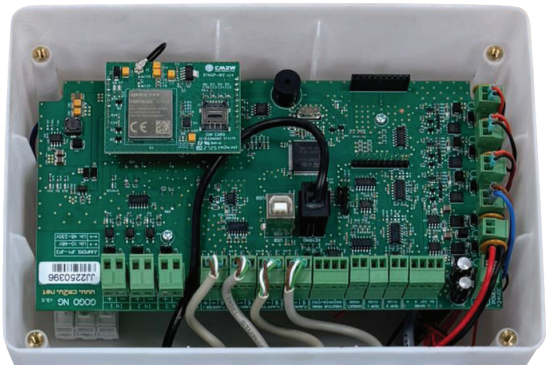
	Parameter	Description
Pumps	**Type**	KNF Diaphram liquid pump FF20
	Flow rate (max.)	210 ml/min
	Pressure (max.)	3 bar (rel.)
	Suction height (max.)	2.5 m H_2O
	Valve material	FFKM
	Diaphragm material	PTFE
	Pump head material	PP
	Motor type	Brushless DC
	Permissible ambient air	-5 to 60 °C
	Permissible liquid temperature	5 to 80 °C
Flow meters (optional)	**Type**	Low-flow turbine PVDF flow meter
	Measuring principle	Paddle wheel
	Flow range	0.015 – 0.9 L/min (H_2O, 20 °C)
	Flow meter materials	PP / PVDF / FKM
	Pulse rate	Approx. 11,500 pulses per liter (H_2O 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**	• **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	• **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	• 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 log	Tracking of input signal logs registered by the system
	Dishwasher ready monitoring	• 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 wizard	Duplication 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.

14 | 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

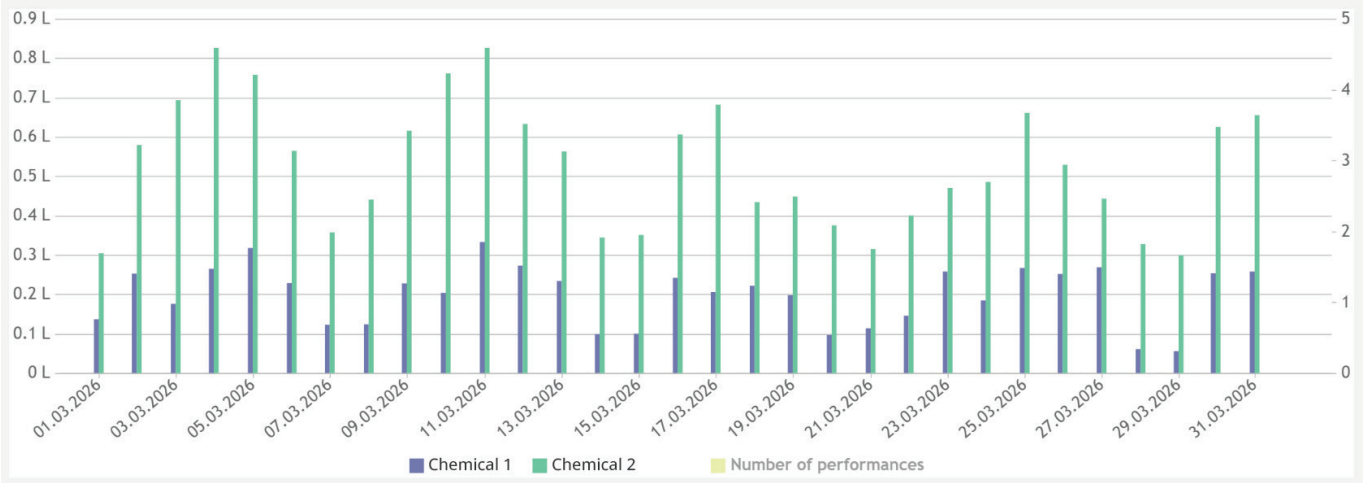
Conductivity level chart

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



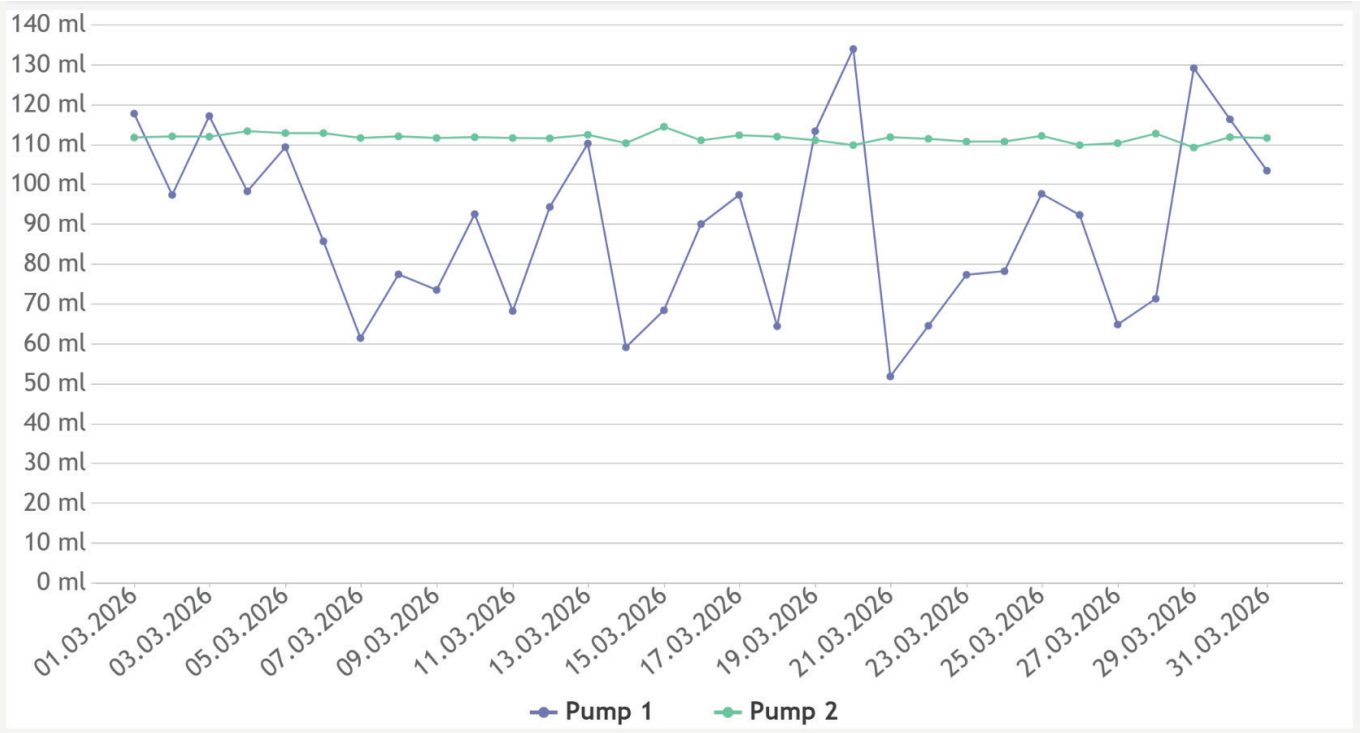
Product consumption chart

Graphical representation of product consumption over a selected time period.



Flow rate chart

Graphical representation of 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	[redacted]	43	0	0	0	2	0	0	0	45
48	[redacted]	20	0	0	0	0	0	0	0	20
49	[redacted]	134	0	0	0	0	0	0	0	134
50	[redacted]	10	0	0	0	4	0	0	0	14
51	[redacted]	43	0	0	0	0	0	0	0	43
52	[redacted]	218	0	0	0	0	0	0	0	218

