CM2W
CONNECT MACHINES TO WEB

MFP Series

Maintenance-Free Performance



Solid Dishwasher Dosing System

New Generation GOGO

Product Overview

GOGO Solid Dishwasher Dosing System is an integrated solution for precise dispensing of solid detergent and liquid rinse aid into warewashing machines or conveyor tunnel dishwashers.

The **solid detergent hopper** dissolves dry detergent into solution, with a solenoid valve and conductivity control ensuring optimal concentration. A flow meter and a motor-driven PTFE pump provide accurate rinse aid dosing and proof of delivery, while a conductivity sensor automatically maintains detergent concentration for consistent washing results.

All operations are monitored and controlled in real time through a **cloud-based management software**, providing 24/7 access to performance data and consumption insights from any internet-connected device.

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
- Integrated RF module for wireless sensor connection
- High dosing accuracy and proof of delivery
- Low-maintenance and reliable performance
- Conductivity-based solid detergent control
- Remote calibration and programming

Technical Specifications

Hardware & Connectivity

	Parameter	Description
Physical specifications	**Dimensions**	35 (H) × 25 (W) × 22 (D) cm
	Weight	2.45 kg
	Assembly	Fully assembled (ready for installation)
	Power supply	25 W; 100- 240 VAC, 50/60 Hz (integrated)
Connectivity	**Internet connectivity**	Via SIM card (mobile network) or Wi-Fi router connection
	RF connectivity	RF module (supports wireless sensors)
	Wireless infrastructure	Supports integration of sensors (via RF module)
	Dishwasher connectivity	Signal inputs
	RS485 serial port	1 port
Operational capacity	**Max. capacity**	1 dishwasher (console or tunnel)
	Max. products	2 products (solid detergent and liquid rinse aid)
	Pump	1 rinse pump (24V DC with PWM speed control)
	Solenoid valve	1 detergent solenoid valve (opens depending on conductivity value)
	Signal inputs (galvanically isolated)	3 signal inputs (voltage ranges: [12–48] V, [48–230] V)
	Flow meters	• 1 low-flow PVDF flow meter for liquid rinse aid and • 1 standard PVDF flow meter for water (optional)
	Inductive probe	1 inductive probe input
	Conductive probe	1 conductive probe input
	Temperature sensor	2 temperature sensor PT100 inputs

System Components

	Parameter	Description
Pumps	Type	Motor-driven PTFE membrane pump
	Flow rate range	• Minimum: 30 ml/min • Maximum: 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 meter	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	PVDF / FKM
	Pulse rate	Approx. 11,500 pulses per liter (H_2O at 20 °C)
	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
	Accuracy (v = 1 mPas)	± 2% (at the same operating conditions)
Accessory kit	Rinse aid tubes	Included
	Solid detergent tubes	Included

Intelligent Dosing & IoT Features (1/2)

	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 • **Solid detergent dosing** – based on the consumption rate of solid detergent • **Conductivity dosing** – based on real-time conductivity measurements using inductivity sensor or conductivity sensor
	Proportional dosing	Dosage is adjusted in proportion to the measured amount of water
	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

Intelligent Dosing & IoT Features (2/2)

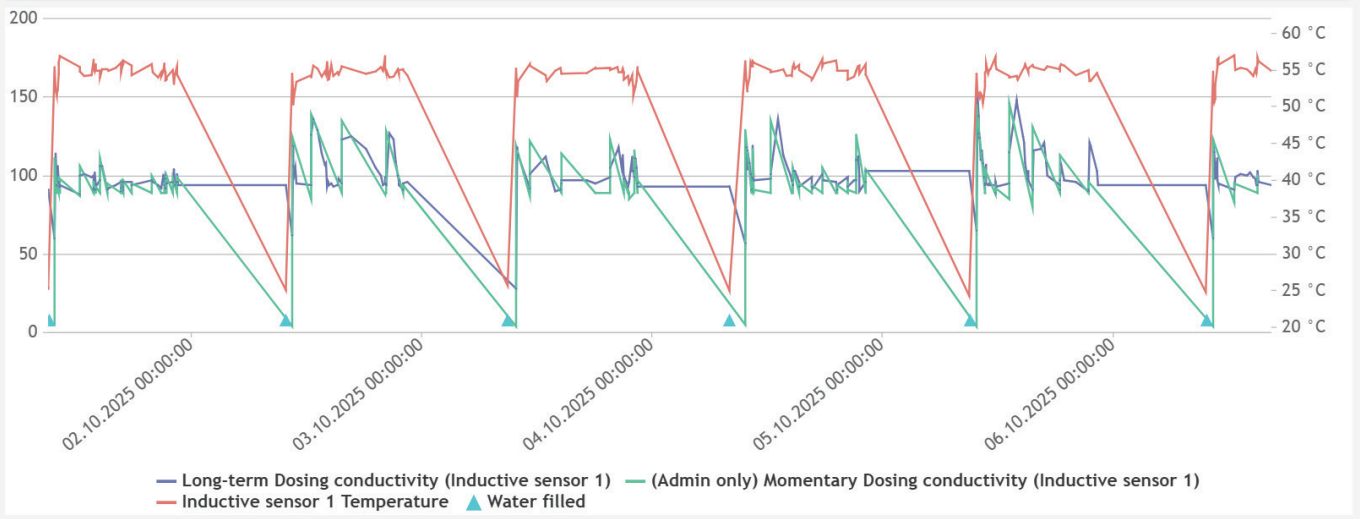
	Parameter	Description
IoT platform features	Access	24/7 in real time
	Copy wizard	Duplicate settings and calibration data across multiple devices
	Offline programming	Device programming in offline environments
	Input signals log	Tracking of input signal logs registered by the system
	Reporting	• Detergent concentration • 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)
	Error notifications	Filtered alerts with customizable levels, assigned to designated personnel for rapid response



Monitoring via the CM2W IoT Platform

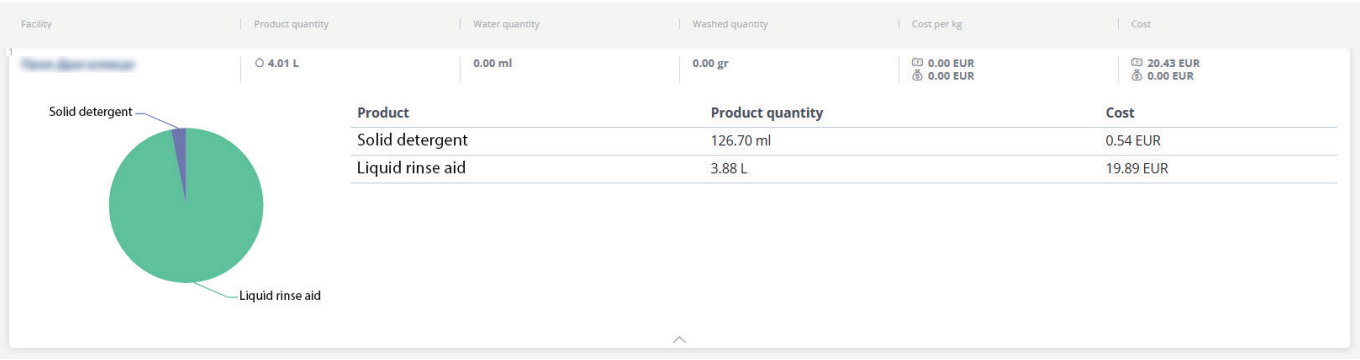
Conductivity level chart

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



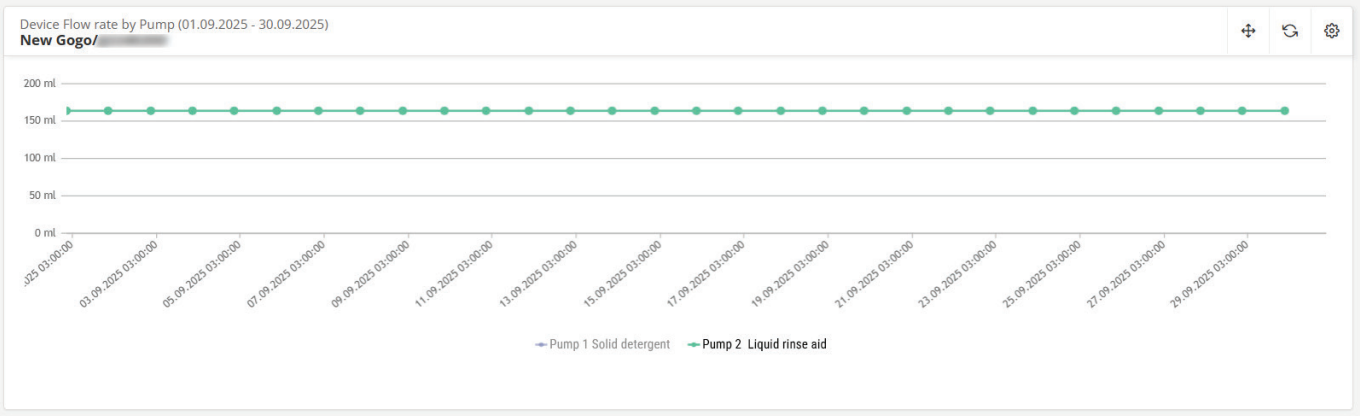
Total quantity chart

Graphical representation of product consumption over a selected time period.



Flow rate chart

Graphical representation of rinse aid flow rate over a selected time period.



Suggested Kit Components

Component	Image	Description	Product code
Low-flow PVDF flow meter		Ensures proof of delivery and dosing accuracy, even at very low rinse aid volumes.	*Request product sheet*
Standard PVDF flow mete		Monitors the water's flow rate passing through the pipe.	*Request product sheet*
Conductivity sensor		Continuously monitors and automatically adjusts detergent concentration to ensure consistent washing results.	*DSC12VIK*
Inductivity sensor		Continuously monitors and automatically adjusts detergent concentration to ensure consistent washing results.	*DS82281*
Temperature sensor PT100		Monitors dosing temperature and tank/boiler warm-up to determine when the dishwasher is ready for operation.	*PT385*
Program selector		Keypad for program selection with 16-digit LED display. Includes 5 m cable.	*DSKL11*
Signal lamp		LED strobe light (24 V DC / 2 W) for visual indication of system interruptions, dosing errors, or critical alerts.	*LEDW2*