

CTDS – Centralized Tunnel Dosing System



- ✓ The ultimate IoT controller for centralized scalable tunnel dosing
- ✓ Applicable in industrial washing, agriculture & farming, swimming pool systems
- ✓ The application fields are exemplary and the system could be adapted for serving various industrial needs



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CTDS Controller	FEATURES	VALUE / Additional Information
LAUNDRY MODE (OPL)	Maximum Capacity	up to 15 wash extractors and 1 tunnel
BASIC TECHNICAL INFORMATION	Dimensions	320 mm (L) 140 mm (W) 170 50 (H) (only the controller)
	Weight	0.5 kg (only the controller)
	Power supply	60W; Voltage 230VAC 50/60 Hz (external/customisable)
	Wash extractor inputs	10 per single module and up to 15 signal modules (total of 150 inputs)
	Inputs (galvanically isolated inputs)	36 per inputs board and up to 5 boards (different ranges – [12 – 48] V, [48-230]V) (total of 180 inputs)
	Dry contact inputs (low level alarm)	15 per extension board and up to 5 boards (total of 75 inputs)
	Flow sensor inputs	15 per extension board and up to 5 boards (total of 75 inputs)
	Outputs	20 per extension board and up to 5 boards (total of 100 outputs)
	Connectivity with CM2W platform (24/7)	GPRS (2G,3G,4G) or Wifi (GPRS is recommendable)
	Parallel Dosing groups	Up to 10
	External control	Keyboard (OLED, 2 x 16)
	Integrated buzzer	Yes
	External buzzer (alarm with single lamp)	Unlimited
	Measurement systems	Metric, Imperial or Imperial US
PUMPS INFORMATION	Pump operating modes	Sequential (pump per chemical), Parallel, Shared and simultaneously both modes
	Pump type	Any type (Electric or pneumatic)
	Flow rate	Depends on the pump
CALIBRATION AND PRIMING	Keyboard calibration	Conducted through the external keyboard, values will be reported to CM2W servers instantly.
	Remote calibration	Conducted through CM2W platform, values will be reported to CM2W server instantly. Can be done from a distance
DOSING METHODS	Fixed	Dosage conducted by specific time period
	Flow sensor	Dosage is conducted through a flow meter (adaptive through time)
OPERATION/Working Mode & PROGRAMMING	Valve Check	Automatic valve self/check can be set
	Emergency stop inputs	Can stop tunnel dosing process if air pressure or water is not OK
	Single flowmeter mode	Dosage is conducted through a flow meter (adaptive through time)
	Dual flowmeter mode	One flow meter measure water and the other water + chemical
	Air Flush	Can be set by duration (in seconds)
	Tunnel Connection	Binary signals or protocol 31, transfer and drop (optional) signals
	Autoformula select mode	Supports combination of four signals or different time durations and both
	On hold Mode	Can pause wash extractor program while waiting for chemicals
	Ozone integration	Optional (external, comes in a special metal box with ozone generator) or Corona Discharge Ozone Generator
	Inputs signal logs	Can monitor inputs and errors remotely
	Copy Wizards	Can copy all settings and calibration settings between devices
	Wireless Infrastructure	Possibility to use wireless single modules and sensors
	Device setup and programming	Remote and real time programming via the air
	PNF (progressing notification filter)	Notifications are filtered and addressed to specific people to ensure faster reaction time. Levels can be created as well.



Industrial washing

Especially configured for reliable and precision chemical dosing in commercial laundries for achieving highest efficiency in the washing process.



Ozone laundry systems

Ozone generator integration to the dosing system for environmentally friendly cost-effective ozone washes that reduce hot water consumption.



Industrial agriculture & farming

Dosing and irrigation systems to control the water flow in pipes and periods of irrigation for lower production costs and greater environmental sustainability.



Swimming pool systems

Chemical treatment systems and plumbing systems for pool maintenance to keep the water clean and chemically balanced.

