

# Accuratic DP



## Overview

The Accuratic™ DP is a potentiometer-controlled liquid dispenser for machine ware washing, designed with the latest technology and components. Its modular pump format allows for easy configuration to dose detergents, rinse aids, boosters, and sanitizers in single-tank dishwashers.

The Accuratic DP pump can be configured for both timed and speed-mode applications. It is designed for quick and hassle-free installation, featuring a rail-mount system and a pre-wired signal cable with a wide voltage range, making it straightforward for installers. The flexible electrical connection includes two optional volt-free inputs for detergent top-up and initial charge when paired with a permanent power signal.

For operators, the pump is easy to prime, and its status LEDs provide clear feedback for monitoring and troubleshooting. The Accuratic DP also includes a built-in alarm feature when paired with a low-level sensor, alerting users to refill the detergent, rinse aid, or sanitizer. The pump is CE compliant and carries an IPX5 ingress protection rating, ensuring splash-proof reliability.

## Features

- Accurate dosing to deliver consistently high cleaning performance
- Reliable and robust dispenser design
- Easy setup using a potentiometers
- Flexible dosing with speed and timed modes
- Optional volt-free inputs for detergent Recharge and Initial Charge
- Power switch for use when descaling the dishwasher
- Single button operation for priming pump
- Flexible installation with ease of maintenance
- Comprehensive installation kit included in the box
- Built in low-level alarm input per pump

# Specifications

## Dimensions - Pump Modules

|        |                |
|--------|----------------|
| Height | 150 mm / 5.9"  |
| Width  | 105 mm / 4.13" |
| Depth  | 125 mm / 4.92" |

## Material

|                   |                                  |
|-------------------|----------------------------------|
| Enclosure         | Polypropylene 25% mineral filled |
| Transparent Cover | Polycarbonate                    |

## Environmental Specifications

|                                    |                                                    |
|------------------------------------|----------------------------------------------------|
| Internal Ambient Temperature Range | 5-40°C (41-104°F) For indoor use only              |
| Humidity                           | Maximum relative humidity 80% at up to 30°C (86°F) |
| Ingress Protection Rating          | IPX5                                               |

## Pump Specifications

|                                 |                                                                             |
|---------------------------------|-----------------------------------------------------------------------------|
| Flow Rate - Detergent Pump      | 0.2 Bar / 2.9 psi back pressure: 0 - 148ml/min at 100% speed                |
| Flow Rate - Rinse Pump          | 3 Bar / 43.5 psi back pressure: 0 - 16ml/min at 100% speed                  |
| Maximum Duty Cycle - All Pumps  | Intermittent use at 100% speed. 50% duty cycle, 5 minutes on, 5 minutes off |
| Maximum Duty Cycle - Rinse Pump | Continuous use at a maximum of 30% speed                                    |
| Pickup Tube Length              | Maximum 3m / 9.84'                                                          |
| Delivery Tube Length            | Nominal 5m / 16.4'. Maximum 7m / 23'                                        |

## Weight

|              |                     |
|--------------|---------------------|
| Pump Modules | 0.980 Kg / 2.16 lbs |
|--------------|---------------------|

## Mounting

|              |                                                          |
|--------------|----------------------------------------------------------|
| Pump Modules | Plastic modular mounting rail or DIN rail (35mm Top Hat) |
|--------------|----------------------------------------------------------|

## Regulatory Approvals

|                       |               |
|-----------------------|---------------|
| Europe & UK           | CE Approved   |
| North America & LATAM | ETL - Pending |

## Power & I/O

|                              |                                  |
|------------------------------|----------------------------------|
| Power                        | 85-240V AC, 50-60Hz              |
| Recharge Trigger Input       | 2-wire Volt-free contact closure |
| Initial Charge Trigger Input | 2-wire Volt-free contact closure |

|                  |                                                       |
|------------------|-------------------------------------------------------|
| Low-level Sensor | 2-wire Volt-free contact closure<br>(Optional 24V DC) |
|------------------|-------------------------------------------------------|

Dose Configuration & Setup

|                                   |                                                                                |
|-----------------------------------|--------------------------------------------------------------------------------|
| Pump Speed                        | Potentiometer 1: 1 to 100% Speed                                               |
| Recharge Runtime                  | Potentiometer 2: 0 to 20 Seconds.<br>Continuous Running @ Max.                 |
| Initial Charge Runtime            | Potentiometer 3: 0 to 190 Seconds                                              |
| Default Operation Mode (DIP1 OFF) | One Power Signal Mode - Pump runs Recharge then Initial Charge on power signal |
| Optional Operation Mode (DIP1 ON) | Permanent Power Mode - Dose on Volt-free trigger(s)                            |

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