TECHNICAL DATA SHEET

# ALab™ DMS5 LCD Digital 5-Inch Magnetic Stirrer

*LCD digital magnetic stirrer · Ø135 mm ceramic-coated plate · 50 to 1500 rpm · 10 L · timer · RS232*




**ALab™ DMS5 LCD Digital 5-Inch Magnetic Stirrer**

The ALab™ DMS5 LCD Digital 5-Inch Magnetic Stirrer; image shown for reference.

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SECTION I

## Product Overview

The ALab™ DMS5 is an LCD digital magnetic stirrer with a 5-inch (Ø135 mm) aluminum plate with a ceramic coating. It stirs up to 10 L of water at 50 to 1500 rpm in 1 rpm steps, with stirrer bars up to 80 mm. It has no heater.

The brushless DC motor is maintenance free. The LCD shows speed and time; the timer runs from 1 min to 99 h 59 min with a buzzer at the end. A safety lock, a corrosion-resistant all-metal housing and an RS232 connector for remote PC control complete the unit.

SECTION II

## Core Advantages

- **Plate** — Ø135 mm, ceramic coated
- **Volume** — up to 10 L [$H_2O$]
- **Motor** — brushless DC, maintenance free
- **Speed** — 50 to 1500 rpm, 1 rpm steps
- **Timer** — 1 min to 99 h 59 min
- **Data** — RS232 remote control

SECTION III

## Specifications

### Technical data — DMS5

| Specifications | |
|---|---|
| **Brand** | ALab™ by ACS Material |
| **Model** | DMS5 |
| **ACS Cat. No.** | Parent ALDMS50F; ALDMS500 |
| **Product type** | LCD digital magnetic stirrer with 5-inch ceramic-coated plate (no heating) |
| **Work plate dimension** | Ø135 mm (5 inch) |
| **Work plate material** | Aluminum with ceramic coating |
| **Motor type** | Brushless DC motor |
| **Stirring positions** | 1 |
| **Maximum stirring volume [$H_2O$]** | 10 L |
| **Maximum stirrer bar length** | 80 mm |
| **Speed range** | 50 to 1500 rpm, increment 1 rpm |
| **Speed display** | LCD |
| **Data connector** | RS232 |
| **Timer function** | 1 min to 99 h 59 min |
| **Motor output power** | 10 W |
| **Power** | 30 W |
| **Voltage, frequency** | 100 to 240 V, 50/60 Hz |
| **Dimensions [L × W × H]** | 270 × 175 × 108 mm |
| **Weight** | 1.8 kg |
| **Permissible ambient temperature and humidity** | 5 to 40°C, 80% RH |

### Control and safety

| Function | Detail |
|---|---|
| **Timer** | 1 min to 99 h 59 min; the buzzer sounds at the end of the countdown |
| **Safety lock** | Locks the settings against accidental changes during operation |
| **Buzzer** | Sounds when the unit detects a fault and when the timer countdown ends |
| **RS232 data connector** | Remote control from a PC |

SECTION IV

## Applications

Magnetic stirring of up to 10 L of water on a 5-inch plate in the laboratory, without heating.

Specifications are per the tables above.

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