

pH/mV Simulator Type M4340



- ✓ Easy to use
- ✓ Rugged aluminum housing
- ✓ Long battery service life
- ✓ Options: Different redox voltage ranges

Technical description

The M4340 is a precise, mains-independent pH/mV simulator for testing and calibrating pH and ORP measuring devices. With the simulator, the required voltages for the pH and redox simulation can be simulated directly, independently of tables and conversions. The pH or redox value is selected with a 9-position rotary switch. A second 4-position rotary switch is used to select between different temperatures in the pH range or the redox simulation. In addition, the impedance of the two HF output sockets can be adjusted between 10k Ω , 100k Ω and 1G Ω using a further 3-position rotary switch. The quality of the installation cables and pH/ORP measuring devices can be easily tested with this instrument.

This practical instrument makes the pH/mV

simulator an important tool in the laboratory, in the test field and in production.

Applications:

- Calibration and testing of pH and redox instruments.
- Simulate different pH values at different temperatures like 0°C, 20°C, 100°C.
- Testing the automatic temperature compensation of pH measuring instruments.
- Checking installed pH cables.
- Detection of parasitic resistances, water in plugs or cables.

Options:

- Other voltages for the redox range

Technische Daten

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|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| pH-range: | 0, 2, 4, 6, 7, 8, 10, 12 und 14pH |
| pH simulation temperatures | 0, 20 and 100°C |
| mV-range(standard): | -1000, -714, -428, -143, 0, 143, 428, 714, and 1000mV |
| mV-range(optional): | -500, -357, -214, -71.4, 0, 71.4, 214, 357 und 500mV |
| Ri simulation: | 10kΩ, 100MΩ, 1GΩ |
| Accuracy: | ±0,1% |
| Max. air humidity: | 95%, non condensing |
| Temperature coefficient Of the divider resistors: | 50ppM |
| Of the reference element: | 20ppM |
| Batteries: | 2 x 1.5V AA |
| Battery life: | 1-2 years, shelf life of the battery respectively |
| CE-conformity: | fulfilled |
| Connections: | - HF-socket 4/13 DIN 47284 for pH/mV signal - HF-socket BNC for pH/mV signal - Banana jacks for pH/mV signal with Ri=10kΩ |
| Housing: | Anodized aluminum with chemical-resistant plastic front panel |
| Dimensions W x D x H: | 167 x 106 x 80mm |
| Weight: | 532g including batteries |
| Options: | Other voltages for the redox range |
| Warranty: | 2 years |

Part numbers / Ordering example

| Part number | Description |
|-------------|-----------------|
| M4340 | pH/mV Simulator |

M4340

-mV range: -500 ... +500mV