HydroRanger® 200 is an economical, low-maintenance solution delivering control efficiency and productivity to meet today's strict environmental legislations. This ultrasonic level controller is ideal for simple level measurement and pump control or for more advanced applications such as differential level, open channel measurement and advanced pump control and alarming. HydroRanger 200 can control up to six pumps and measure water and wastewater of any consistency up to a 15 m (50 ft) depth.

Unlike contacting devices, HydroRanger 200 is immune to problems caused by suspended solids, harsh corrosives, grease or silt in the effluent, leading to reduced facility downtime. Available in either wall or panel mount versions, HydroRanger 200 gives you the right configuration and control for your level measurement needs.

www.siemens.com/level
## Technical specifications

### HydroRanger 200

#### Power
- **AC version:** 100 to 230 V AC ±15%, 50/60 Hz, 36 VA/17W
- **DC version:** 12 to 30 V DC 20W

#### Performance
- **Points of measurement:** Single or dual point
- **Measurement range:** 0.3 to 15 m (1 to 50 ft) dependent on transducer
- **Accuracy:** 0.25% of program range* or 6 mm (0.24”), whichever is greater
- **Resolution:** 0.1% of program range* or 2 mm (0.08”), whichever is greater

#### Interface
- **Display:** 100 x 40 mm (4 x 1.5”) multi-field back lit LCD

#### Communication
- **Built-in Modbus RTU or ASCII via RS-232 or RS-485**
  - Options:
    - PROFIBUS DP
    - ALLEN-BRADLEY® Remote I/O
    - DeviceNet™

#### Programming
- **Patented infrared hand-held programmer**
- SIMATIC PDM
- Dolphin Plus®

#### Outputs
- **Two 0 to 20 mA or 4 to 20 mA outputs**
- **Six relays (4 Form ‘A’ / 2 Form ‘C’)**
- **All relays rated 5A at 250 V AC, non-inductive**

#### Inputs
- **2 discrete inputs for contact level device**
- **mA input**

#### Mechanical
- **Enclosure:**
  - Wall mount: Type 4X/NEMA 4X/IP65, polycarbonate
  - Panel mount: Type 3/NEMA 3/IP54, polycarbonate

#### Process Conditions
- **Ambient temperature:** -20 to 50 °C (-5 to 122 °F)

#### Compatible transducers
- XRS-5, XCT-8, XCT-12, XPS-10, XPS-15, ST-H

#### Approvals
- CE**, CSA, NRTL/UL, UL Listed, FM

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* Program range is defined as the empty distance to the face of the transducer plus any range extension.

Specifications are subject to change without notice.

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Modbus is a registered trademark of Schneider Electric.

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SIMATIC PDM is a registered trademark of Siemens AG.


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