

SIEMENS
Ingenuity for life



Reliable level measurement made easy.

Get to know the HydroRanger 200 – simple to use, simple to set up.

For 30 years, the HydroRanger 200 has been the industry standard for level measurement in water/wastewater monitoring and pumping, inventory management, truck load-outs, open channel monitoring, and anything in between.

The HydroRanger 200 gives you unparalleled ease of use, setup in under a minute, customer-driven features, and PROFIBUS DPV1- all to make your work simpler and to provide the reliability you have grown to trust in Siemens ultrasonic controllers.

Making our experience work for you.

Since the early 1970s, Siemens has been your partner in ultrasonic level measurement. This experience matters. We understand the process measurement needs of the industries that rely on us – and we put that knowledge to work in developing the HydroRanger 200 ultrasonic level controller.

All of your favorite features in one easy-to-use package. You want it, we've got it:

Easy setup

- Programmable in under a minute with a Human Machine Interface (HMI) featuring local four-button programming and Quick Start Wizards.
- Enclosure with a protected wiring component and removable terminal blocks.

Advanced software

- As always, we deliver Sonic Intelligence, our patented echo processing technology for ultrasonic level measurement.
- Advanced algorithms provide intelligent processing of echo profiles. The result: repeatable, fast, and consistent measurement you can trust.

Compatibility and connectivity

- A range of communications options including PROFIBUS DPV1.

- Compatible with Siemens Echomax ultrasonic non-contacting transducers – impervious to dust, moisture, vibrations, flooding, and high temperatures.
- Siemens transducers have active faces to reduce material buildup and maintenance – an ideal fit for a wide range of industries. Pair with a submergence shield for the ability to sense flooding or overflow conditions.

Cost savings and improved safety

- Install the new HydroRanger 200 and operations are immediately more cost-effective: inventory monitoring is always precise, processes can be easily controlled, and expensive spill cleanups can be avoided.
- A reliable ultrasonic level controller reduces the need to send operators to the application for maintenance. Keep workers out of hazardous situations and you reduce the chance of accidents and the consequences to your company.



Ultrasonic advantage

- Easy to use and quick to configure – graphical Quick Start Wizards guide you during setup.
- Auto False-Echo Suppression – differentiates false echoes from true material level echoes.
- Sonic Intelligence – our field-proven echo processing algorithms provide the most reliable performance possible.
- Compatibility with Siemens Echomax transducers.



	HydroRanger 200
Order No.	7ML5034
	HydroRanger 200 is a versatile non-contacting ultrasonic level controller for up to six pumps. It provides control, differential control, and open channel flow monitoring for short- to medium-range applications in a wide range of industries.
Range	0.3 to 15 m (1 to 50 ft), transducer and material dependent
Accuracy	6 mm (0.24") or 0.25% of maximum range (whichever is greater)
Key features	<ul style="list-style-type: none"> • Monitors water and wastewater of any consistency up to 15 m (50 ft) in depth • Single-point monitoring with all models, optional dual-point monitoring and gate control • Simple setup with graphical Quick Start Wizards on the local user interface with four-button programming • Supports remote configuration and diagnostics with SIMATIC PDM and optional PROFIBUS DPV1 • Auto False-Echo Suppression to avoid false echoes from fixed obstructions • Digital communications with built-in Modbus RTU via RS-485 • Digital input for back-up level override from point level devices • Accurate and repeatable open channel flow measurements
Applications	<ul style="list-style-type: none"> • Level measurement or pump control in water/wastewater • Truck load-outs • Inventory management in industrial storage vessels • Open channel monitoring
Communications or outputs	<ul style="list-style-type: none"> • RS-485 with Modbus RTU or ASCII • Compatible with SIMATIC PDM via Modbus RTU Options: SmartLinx cards for PROFIBUS DPV1, DeviceNet
Approvals	CE, CSA _{NRTL/C} , UL, FM, RCM



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