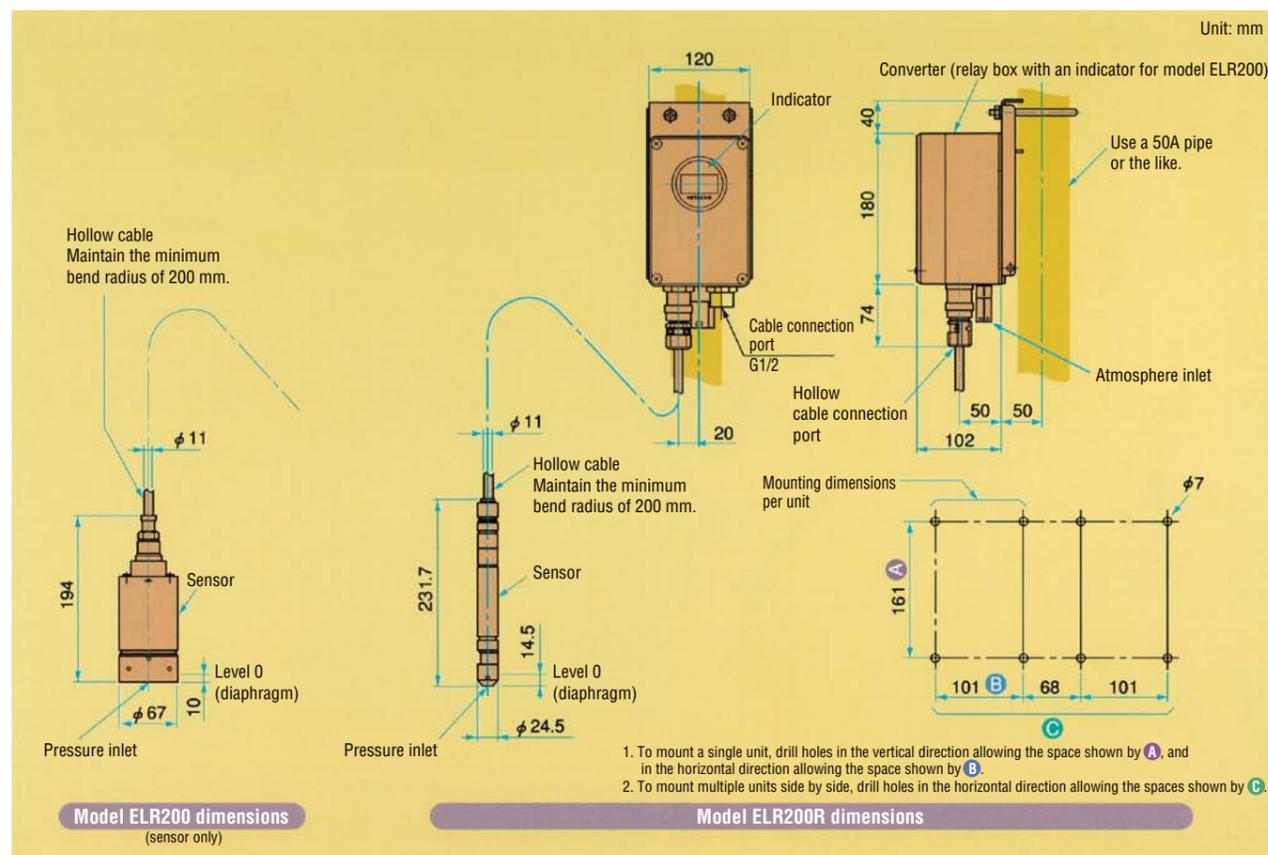


ELR200 Series

Hitachi Immersion-Type Level Transmitter



Notice: For proper operation, follow the instruction manual when using the instrument.

Specifications in this catalog are subject to change with or without notice, as Hitachi High-Tech Solutions Corporation continues to develop the latest technologies and products for our customers.

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High-performance, highly reliable sensor lineups



Sensor Relay box with an indicator

ELR200



Sensor Converter with an indicator

ELR200R

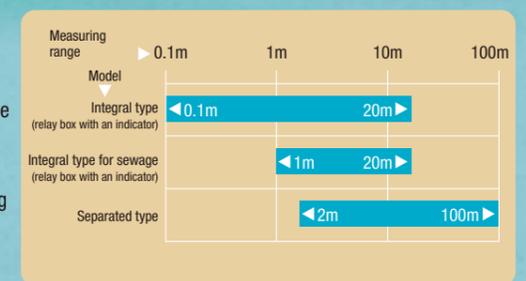
Hitachi renovated the lineup of immersion-type level transmitters. The pressure sensors—the heart of the level transmitters—employed in the new series are Hitachi's highly reliable, well-proven semiconductor pressure sensors. The sensors detect eligible pressure changes and provide stable measurements from a minimal level change in low level water to a large level change in dams. As proven by Hitachi pressure gauges used in severe chemical plant environments, the precision and long-term stability of the sensors will be well demonstrated under a variety of different conditions.

Easy-to-operate with a flexible design

The flexible designs offered by the selection of models support a wide range of applications from artesian wells to low-level measurements and fulfill the needs for sewage (optional) as well. The sewage type employs a diaphragm protective cover with PET film to enhance maintainability. It also incorporates a highly corrosive-resistant FEP cable. Furthermore, the communicator (optional) remotely sets and modifies the measuring ranges and performs self-diagnosis, allowing for measurement in remote or heavy snowfall areas.

Variety of products tailored for specific uses

The ELR200 series includes a variety of product types. In addition to the integral (model ELR 200) and separated types (model ELR200R), the optimal model can be selected with options best suited for a specific use or installation environment, consisting of the floor bracket, indoor/outdoor power supply (100 VAC and 24 VDC), and the cable relay box.



Expanding application area

Water levels are measured by simply hanging the sensor in the water, which means the sensor is easy to install and handle. As long as the measuring range is between 0.1 m and 100 m, it can be applied to any field from waterworks, sewage, rivers, dams, and wells to irrigation.

Major specifications of the ELR200 series immersion-type level transmitter

Item	Specifications			
Measuring method	Semiconductor pressure sensor			
Wiring	Two-wire			
Measuring range and accuracy	Item	Model ELR200, integral type		Model ELR200R, separated type
	Reference range	1 m	20 m	60 m 100 m
	Measuring range	0–0.1 m to 0–1 m	0–1 m to 0–20 m	0–2 m to 0–60 m 0–60 m to 0–100 m
Accuracy for each span	0.1–0.2 m: +/-0.3% of span	1–3 m: +/-0.3% of span	2–5 m: +/-0.3% of span	60–100 m: +/-0.2% of span
	0.2–1 m: +/-0.2% of span	3–20 m: +/-0.2% of span	5–60 m: +/-0.2% of span	
Output signal	4–20 mADC			
Power supply voltage	11.4–42.0 VDC (varies depending on the model)			
Load resistance	600 Ω (for 24 VDC power supply voltage) (varies depending on the model)			
Damping time constant	0.4–102.4 seconds			
Operating temperature range	–10°C to 60°C (non-freezing)			
Adjustment	Set/adjusted by the model DCR2000 communicator			
Indicator	Model ELR200: 3 1/2 digit actual water level (m) display			
	Model ELR200R: 4 1/2 digit actual water level (m) display			
Arrester	Built-in (built-in model HR-DS arrester for model ELR200)			