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residual chlorine meter: reagent-free monitoring | acniti

This reagent-free residual chlorine meter uses 3-electrode pulse voltammetry for continuous, maintenance-free monitoring of free chlorine in drinking water and industrial systems. Available in two models - an economical option with 0.1 mg/L resolution and a high-precision option with 0.01 mg/L resolution - for water treatment plants, distribution networks, hospitals, and industrial facilities.

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reagent-free residual chlorine meter for water treatment

- No need for chemicals
- Measures only free residual
- Automatic sensor cleaning
- Wide measuring range
- Excellent repeatability
- Fast response
- Robust installation options

The ECLG-35 Residual Chlorine Meter is a high-precision, reagent-free sensor designed for continuous monitoring of free residual chlorine in drinking water and industrial water systems. Utilizing a 3-electrode pulse voltammetry method, the ECLG-35 provides accurate and stable measurements without the need for chemical reagents.

why choose the eclg-35?

The sensor features an advanced automatic cleaning system, combining bead flow and electrolytic cleaning to maintain consistent sensitivity and minimize drift over time. With a measuring range of 0.00-3.00 mg/L, high repeatability (±2% FS), and a fast response time (T90 ≤ 1 minute), the ECLG-35 ensures reliable chlorine control under varying water conditions.

This unit is equipped with automatic temperature compensation and a built-in thermistor, ensuring stable performance across a wide pH and conductivity range. Installation is flexible: wall-mounting is standard, or optional pipe-mounting on Ø50 mm tubing.

priority to safe, clean water

With reagent-free operation, built-in cleaning, and excellent measurement stability, the ECLG-35 ensures accurate, long-term chlorine control, eliminating the need for routine maintenance or consumables—ideal for utilities and facilities where a safe and clean water supply is a top priority.

The Residual Chlorine Meter ECLG-35 is ideal for use in water treatment plants,

distribution networks, buildings, hospitals, hotels, and the food or pharmaceutical industries. The ECLG-35 provides peace of mind in water safety and regulatory compliance. All while operating without consumables or complex maintenance procedures.

typical applications

- Drinking water production and distribution
- On-site water supply (hospitals, schools, hotels)
- Storage tanks and reservoirs
- Industrial water disinfection (food, pharma)
- Real-time quality monitoring without consumables

technical specifications

Parameter	Details
Measurement principle	3-electrode pulse voltammetry
Measuring range	0.00 – 3.00 mg/L (free residual chlorine)
Repeatability	±2 % FS + 1 digit (3 mg/L range)
Linearity	±5 % FS + 1 digit
Zero/Span drift	≤ ±1 % FS (zero), ≤ ±10 % FS/month (span)
Response time (T90)	≤ 1 minute
Temperature compensation	Automatic (built-in thermistor)
Power supply	100–240 V AC, 50/60 Hz (~20 VA)
Sample water conditions	pH: 5.8–8.6, Conductivity: 5–100 mS/m, Temp: 0–40 °C
Installation method	Wall mount (standard), optional 50 mm pipe mount
Operating temperature	-10 – 45 °C, RH ≤ 90 % (non-condensing)
Storage temperature	-20 – 60 °C

If you need a durable, low-maintenance chlorine meter that delivers long-term accuracy and efficiency, the ECLG-35 is the wise choice.

ecli-35: residual chlorine meter 0-3 mg/l 100-240v | acniti

	General		
1	Model name	Reagent-Free Residual Chlorine Meter for Water Treatment	
2	Model number	sensor_chlorine_li_water_concentration	
	Liquid	**Metric**	**Imperial**
3	Strainer availability and size		
	Gas	**Metric**	**Imperial**
4	Gas quality		
5	Gas remark		
	Connections		
6	Water inlet		
7	Water outlet		
8	Gas inlet		
	Dimensions & weight	**Metric**	**Imperial**
9	HS code	9027-9090	
	Remarks		
10	Other remarks	✓ The main distinction between the ECLG-35 and ECLI-35 lies in their display resolution and measurement precision ✓ Measurement Range: 0～3mg/L ✓ Display Resolution: Lower precision with 0.1mg/L minimum display increment (displays to tenths) ✓ The ECLI-35 is more economical than the ECGI-35	

eclg-35: residual chlorine meter 0-3 mg/l 100-240v | acniti

	General		
1	Model name	Reagent-Free Residual Chlorine Meter for Water Treatment	
2	Model number	sensor_chlorine_lg_concentration	
	Liquid	**Metric**	**Imperial**
3	Strainer availability and size		
	Gas	**Metric**	**Imperial**
4	Gas quality		
5	Gas remark		
	Connections		
6	Water inlet		
7	Water outlet		
8	Gas inlet		
	Dimensions & weight	**Metric**	**Imperial**
9	HS code	9027.9090	
	Remarks		
10	Other remarks	✓ The main distinction between the ECLG-35 and ECLI-35 lies in their display resolution and measurement precision ✓ Measurement Range: 0.00～3.00mg/L ✓ Display Resolution: Higher precision with 0.01mg/L increments (displays to hundredths) ✓ The ECGI-35 is more expensive than the ECLI-35	