

Residual Chlorine

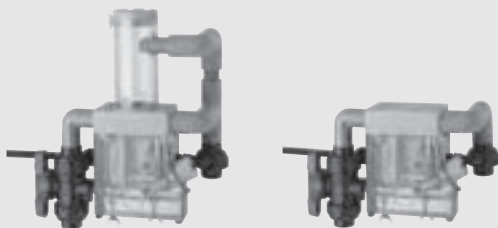
HR-200 (Four-Wire Analyzer)



HR-200 Specifications

Measuring method	Polarography
Measuring range	Residual Chlorine: 0 mg/L to 3 mg/L Resolution: 0.01 mg/L Temperature: 0 to 50°C Resolution: 0.1°C
Repeatability	Residual Chlorine: Within ±0.05 mg/L or less Temperature: Within ±0.5°C (for equivalent input)
Linearity	Residual Chlorine: Within ±0.05 mg/L or less Temperature: Within ±0.5°C (for equivalent input)
Transmission output	Two points 4 to 20 mA DC Input/output insulation type Maximum load resistance 900 Ω
Contact output	Three points No-voltage contact output Relay contact, SPDT Contact capability R1, R2: Selectable from upper limit alarm, lower limit alarm, ON/OFF control, currently holding transmission output, and cleaning output. (opened at alarm operation, closed usually, closed at power-off) FAIL: Error warning (normally closed; open when an error occurs; open when the power is turned OFF)
Contact input	Two points Contact type: No-voltage a contact for open collector Contact capability: Input 1: External input for transmission holding Input 2: Flow switch input for interlock (Open due to decreased flow)
Communication capability	RS-485 Two-wire input/output insulation type (not insulated from transmission output)
Temperature compensation range	0 to 50°C
Ambient temperature	0 to 55°C
Cleaning capability	Electrochemical Cleaning between Cathode and Electrochemical cleaning electrode
Calibration method	Zero calibration (Zero liquid calibration) SPAN calibration (Compare to measurement value of DPD method, Including zero electric calibration)
Self-diagnosis function	Calibration error, Temperature sensor diagnostic error, Meter error
Power source	90 V to 264 V AC, 50/60 Hz 35 VA (max.) when an automatic cleaner is connected.
Construction	Outdoor installation type: IP65 Protection class Installation method: 50 A pole-mounted or wall-mounted Material of case: Aluminum alloy (coated with epoxy modified melamine resin) Material of mounting brackets: SUS304
Weight	Approx. 4.5 kg
Equipment protected	CE marking, FCC rules

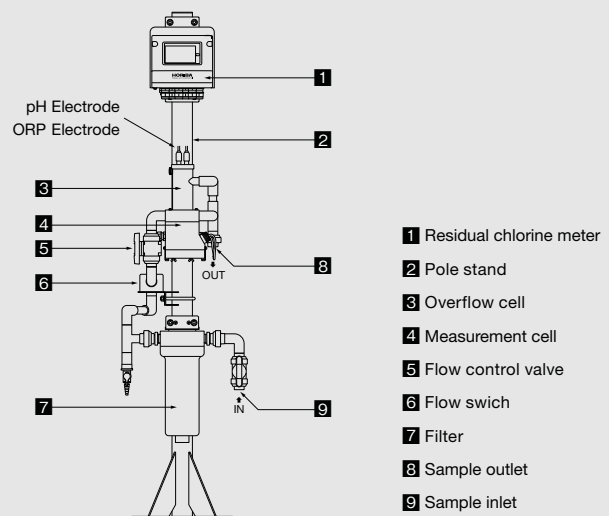
Sensor



Specifications

Model	RA-10	RA-20
	Overflow type	Inline type
Measuring method	Polarography	
Sample condition	Temperature 0°C to 45°C (without freeze)	
	Flow rate	1.3L/min to 2.0L/min 0.6L/min to 1.0L/min (Constant*2)
Pressure	Within 0.5MPa	
pH	5.8pH to 8.6pH (Constant)	
Electrical conductivity	More than 10mS/m	
Wetted part material	PVC, PPO, EPDM	
Electrode material	Au, AgCl, C	
Bead material	SiO2	
Filter material	Nylon	
Pipe arrangement	Sample inlet	PREFAB JOINT TS16A (ASHAHI)
	Sample outlet	PREFAB JOINT TS16A (ASHAHI)
Cleaning method	Physical polishing by glass bead, Electrochemical Cleaning	
Cable length	Standard: 2m, Maximum extension: 40m	

Unit



Accessories

Cathode

•RA-K

Filter unit

•RA-F

Flow switch

•RA-FS10 (for RA-10)
•RA-FS20 (for RA-20)

Flow meter

•RA-FM (for RA-20)

Constant folw valve

•RA-CFV (for RA-20)

Caution: The selection of equipment will differ based on various conditions, including the installation site, usage environment, measurement samples, and any special characteristics. Contact your sales representative for details.