

CM130 CHLORINE MONITORING SYSTEM FOR DIALYSIS



You have to Be Right.

The Hach CM130 monitors total chlorine levels in pre-treatment water used in hemodialysis.

Frequent Analysis & Immediate Notification

Build confidence in your chlorine removal process with the Hach CM130. The system automatically measures chlorine levels every 5 minutes* with a standard, repeatable process – and includes a remote indicator on the patient floor for immediate audio and visual notification of high-chlorine events.

Facilitate Regulatory Compliance

The CM130 digitally records automated chlorine measurements and makes these time-stamped values available for electronic export.

Caregiver Productivity

Online chlorine analysis and the remote indicator system deliver actionable insights to caregivers, giving them the opportunity to focus their time in the patient care environment.

*Measurements may be aborted when the system detects a measurement quality issue, resulting in a longer measurement interval (up to 20 minutes).

Technical Data**

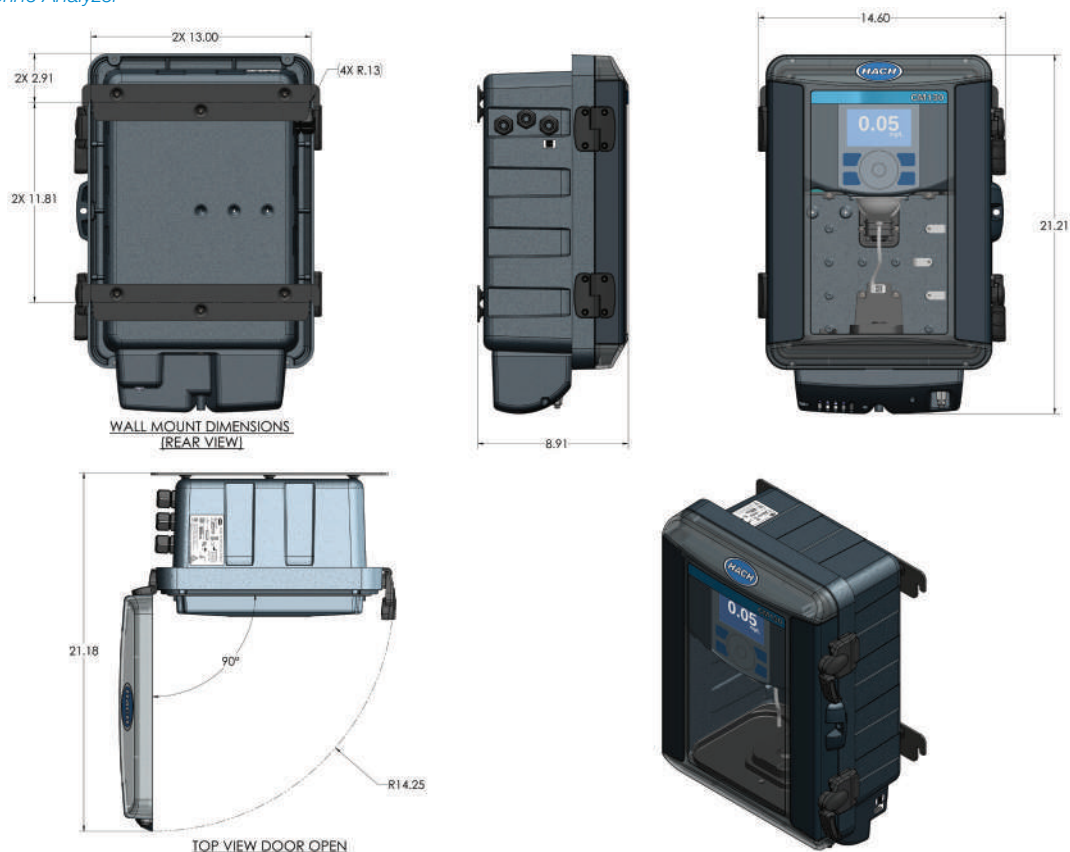
Dimensions	Analyzer: 37.0 x 53.8 x 22.6 cm (14.6 x 21.2 x 8.9 in.) Remote indicator: 12.3 x 29.4 x 10.7 cm (4.8 x 11.6 x 4.2 in.)	Sample Pressure	2.76 - 6.89 bar (40 - 100 psi) nominal; pressure spikes 8.27 bar (120 psi) or less
Material	Analyzer: PC/ABS case, PC door, PC hinges and latches, 316 SST hardware Remote indicator: PC/ABS	Sample Flow Rate	250 mL/min minimum
Display	10.9 cm (4.3 in.) color display, backlit LCD, WQVGA	Sample Temperature	15 - 40 °C (60 - 104 °F)
Weight	Analyzer: 8.9 kg (19.6 lbs) Remote Indicator: 1.1 kg (2.5 lbs)	Particle Size	15 µm or less
Mounting	Analyzer: Wall Remote indicator: Wall or ceiling	Output	Analyzer: Two colors (amber and red) on the display and three sounds for notifications. The measurement and event history can be copied to an SD card as two separate files. Measurement data is available through the Ethernet connection. Remote indicator: Two lights show the analyzer status (blue, amber or red). Two lights show the chlorine status (blue, amber or red). Three different sounds: hardware alarm, medium-high chlorine alert and high chlorine alarm.
Protection Class	I	Data Logger	3000 measurements maximum
Pollution Degree	2	Certifications	ETL certified to UL and CSA 61010-1 safety standard
Installation Category	Category II	Light Source	LED, measurement at 510 nm
Power Supply	Analyzer: 100 - 240 VAC, 50/60 Hz, 1 A max Remote indicator: Power is supplied by the analyzer. When power is not supplied by the analyzer, a lithium coin battery CR2032 (3 V) in the remote indicator will drive a power-loss alarm.	Range	0.03 - 0.20 mg/L total residual chlorine as Cl ₂
Operating Temperature Range	15 - 30 °C (60 - 85 °F)	Measuring Interval	5 minutes*
Operating Humidity	5 - 90 % non-condensing at 30 °C (85 °F) maximum	Accuracy	±0.03 mg/L as Cl ₂
Fitting Type	Sample line: ¼-in. OD push-to-connect fitting for plastic tubing Drain line: slip-on fitting for ½-in. ID soft plastic tubing	Repeatability	0.01 mg/L as Cl ₂
Cable	Ethernet: 100 m (328 ft) maximum, Ethernet cable with an RJ45 connector Remote indicator: 762 m (2500 ft) maximum, CAT5e/CAT6 type Ethernet cable with four twisted pairs of 24 AWG solid copper wiring. Make sure that the cable shielding includes an inner foil wrap around all of the pairs and an outer braid, also known as SFTP or SF/UTP. Do not use stranded or copper-clad aluminium conductors.	Stabilization Time	Three measurement cycles after the analyzer is set to measurement mode. The first measurement shows 20 minutes after the analyzer is put into measurement mode.
		Lower Limit of Detection (LOD)	0.03 mg/L (ppm) as Cl ₂
		Reagent Consumption	0.5 L of buffer solution and 0.5 L of indicator solution each 31 days when in measurement mode 132 hours each week

**Measurements may be aborted when the system detects a measurement quality issue, resulting in a longer measurement interval (up to 20 minutes).*

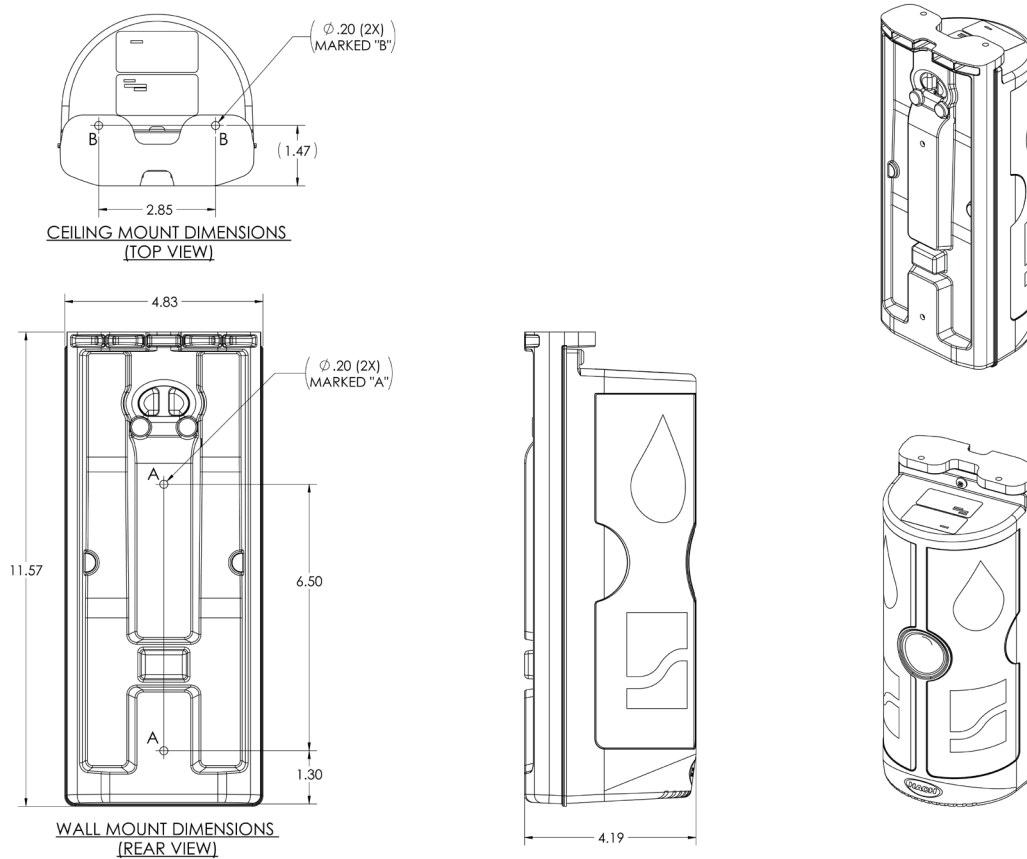
***Subject to change without notice.*

Dimensions

CM130 Chlorine Analyzer



Remote Indicator



Order Information

Instrument

CM130.US CM130 Chlorine Monitoring System for Dialysis

Replacement Parts

9746600	CM130 Performance Check Kit
9747300	CM130 Sample Conditioning/Speaker Module Replacement Kit
9747400	CM130 Reagent Delivery Module Replacement Kit
9747500	CM130 Stir Motor Module Replacement Kit
9747600	CM130 Power Cord Replacement Kit
9730100	CM130 Remote Indicator Replacement Kit
9717200	CM130 Installation Kit
9638900	CM130 Tubing Maintenance Kit

Maintenance

9717300	CM130 Monthly Maintenance Kit (1 Month Supply)
9756600	CM130 Monthly Maintenance Kit (6 Month Supply)
9746800	CM130 Periodic Maintenance Bundle Includes 9746600 and 9638900



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