

PROCESS ANALYZERS Chlorine

Endress+Hauser Chlorine Transmitters

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People for Process Automation

- Alarm contact and two analog outputs
- Continuously monitor either free or total chlorine residual

These free chlorine analyzers continuously monitor chlorine in effluent or potable water. pH compensation lets you maximize your disinfecting process.

The CCM 223 chlorine analyzer features a 1/4 DIN housing for mounting in an existing control panel. The CCM 253 analyzer is housed in a NEMA 4X enclosure that can be wall or surface mounted, or post-mount it using the post mounting kit 64014. Stock # 64331 features two additional programmable relays and a PID controller for your process equipment. Models are available with optional HART®, PROFIBUS® PA or PROFIBUS DP output communications. Contact USABlueBook for more information.

Two free chlorine sensors are available: the CCS 140 (range 0.05 to 20 mg/L) and the CCS 141, (range 0.01 to 5 mg/L). Mount the chlorine and pH sensors in the flow cell listed below.

Sensors do not include flow cell; order separately.

The CCS 120 sensor monitors total residual chlorine levels. The direct-measuring total chlorine sensor can be mounted in the 31998 or 31999 flow cells, or in the 64163 immersion holder.

Range:	CCS 140 (free): 0.05 to 20.00 ppm (mg/L) CCS 141 (free): 0.01 to 5.00 ppm (mg/L) CCS 120 (total): 0.01 to 10.00 ppm (mg/L)
Accuracy:	±0.5% of reading
Resolution:	CCS 140, 141 (free): 0.01 ppm (mg/L) CCS 120 (total): 0.01 ppm (mg/L)
Display:	backlit LCD
Sample flow rate:	0.133 gpm
Max pressure:	42 psi (chlorine sensors 64031 & 64032)
Analog outputs:	(2) isolated 0-20 or 4-20 mA
Alarm relay:	1 SPDT rated 2A @ 250 VAC (3 SPDT on stock # 64331)
Temp compensation:	automatic, 0 to 122°F (0 to 50°C)
Sensor to analyzer:	15 feet
Power:	115 VAC, 50/60 Hz*
Enclosure:	NEMA 4X for CCM 253, panel mount for CCM 223
Approvals:	CE, CSA

* Alternate voltages available. Contact USABlueBook for more information.

MFR #	DESCRIPTION	STOCK #	EACH
CCM253-EK1105	Analyzer (NEMA 4X, no pH Compensation)	64049	\$
CCM223-EP1105	Analyzer (Panel Mount with pH Compensation)	64029	
CCM253-EP1105	Analyzer (NEMA 4X with pH Compensation)	64030	
CCM253-EP1110	Analyzer (NEMA 4X with pH Compensation, PID Controller and 3 Relays)	64331	

FREE CHLORINE SENSORS & ACCESSORIES

CCS140-N	Free Chlorine Sensor (0.05 to 20 mg/L)	64031	\$
CCS141-N	Free Chlorine Sensor (0.01 to 5 mg/L)	64032	
CPS11-2AA2ESA	pH Electrode for Flow Cell (No Cable)	64095	
CPK9-NAA1A	Cable for pH Electrode, 15'L (Flow Cell)	64034	
50005255/50005256	Free Chlorine Sensor Maintenance Kit (Membranes & Electrolyte)	64036	

TOTAL CHLORINE SENSORS & ACCESSORIES

51516342	CCS120 Total Chlorine Sensor (0.1 to 10 mg/L)	64051	\$
51517204	3'L Cable for CCS120 Sensor (Flow Cell)	64050	
CPK9-NAA1B	15'L Cable for CCS120 Sensor (Immersion)	64052	
51517284	Total Chlorine Sensor Maintenance Kit (Membranes & Electrolyte)	64054	
51516343	Total Chlorine Sensor Replacement (Electrolyte)	64053	

FLOW CELLS W/ 1/2" NPT INLET/OUTLET

CCA250-M0	Flow Cell (No Flow Alarm)	31998	\$
CCA250-M1	Flow Cell (With Flow Alarm)	31999	

INSTALLATION HARDWARE & ACCESSORIES

50086842	CCM253 Analyzer Post Mounting Kit Hardware	64014	\$
CYA112-AA11C1AB	Sensor Immersion Holder (5-ft PVC with 3/4" NPT Adapter)	64163	
CYH112-AA11AA11E1KC	Rail-Mount Pendulum Hardware with Support (use with 64163)	64203	
50003987	Junction Box (use with Extension Cable 64045)	41359	
50088282	Extension Cable, 60'L (use to extend 64052, 64050, 64034)	64045	
CYY-101A	Weather Cover	64148	



Analyzer 64030



Flow Cell 31998



Free Chlorine Sensor 64031

Total Chlorine Sensor 64051



Choose Your System!

For a Complete Free Chlorine System...

with Manual pH Compensation: (Total \$4,172.64)

1. Chlorine Analyzer: 64049 (wall mount)
2. Free Chlorine Sensor: 64031 (0.05 to 20.00 mg/L)
3. Flow Cell: 31998 (no flow alarm)

with Automatic pH Compensation: (Total \$5,274.59)

1. Chlorine Analyzer: 64030 (wall mount) or 64029 (panel mount)
2. Free Chlorine Sensor: 64031 (0.05 to 20.00 mg/L)
3. pH Electrode: 64095
4. pH Electrode Cable: 64034 (15'L)
5. Flow Cell: 31999 (with flow alarm) or 31998 (no flow alarm)

For a Complete Total Chlorine System...

Immersion Application: (Total \$4,126.40)

1. Chlorine Analyzer: 64049 (wall mount)
2. Total Chlorine Sensor: 64051
3. 15'L Cable for CCS 120 Total Chlorine Sensor: 64052
4. Immersion Holder for Total Chlorine Sensor: 64163

Inline Flow Application: (Total \$4,565.97)

1. Chlorine Analyzer: 64049 (wall mount)
2. Total Chlorine Sensor: 64051
3. Flow Cell: 31999 (with flow alarm) or 31998 (no flow alarm)
4. 3'L Cable for CCS 120 Total Chlorine Sensor: 64050