

## CSI Specification - Single Parameter Monitoring Panel (SPMP-CL) and Controller

### I. General Description

1. The Single Parameter Monitoring Panel shall be a single panel with instruments pre-mounted, wired and plumbed.
  1. The back plane of the panel shall be not greater than 10” wide by 24” long and made of corrosion resistant material.
  2. The panel shall be fully assembled with all instruments, controller, mounted, plumbed, and wired prior to shipment.
  3. The sample and drain system for the panel shall accommodate flows of 400 to 600 ml/min.
2. Compliance met with this assembly
  1. Electromagnetic Compatibility (EMC)
    - i. US Title 47 CFR - Part 15, Subpart B
    - ii. Canada ISED ICES-003, Issue 7
  2. Safety (Controller & Panel Fluidics):
    - i. UL 61010-1
    - ii. CSA C22.2 No. 61010-1-12
  3. Environmental Compliance for the U.S. and Canada markets only
    - i. Prohibition of Certain Toxic Substances Regulations, 2012 (the 2016 Amendments) Canada Prohibition of Certain Toxic Substances
    - ii. Section 65 of the Canadian Environmental Protection Act, 1999 (CEPA) Canada Virtual Elimination List
    - iii. (EU) 2019/1021 EU POP: Persistent Organic Pollutants Regulation
    - iv. Long-Chain Perfluoroalkyl Carboxylate and Perfluoroalkyl Sulfonate Chemical Substances; Significant New Use Rule (July 27, 2020) US TSCA PFAS Surface Coating SNUR
    - v. Regulation of Persistent Bio accumulative and Toxic Chemicals under TSCA section 6(h) (December 2020) US TSCA Section 6 Rules

I. Analytical Instruments. All analytical instruments installed on the panel shall be from a single manufacturer to minimize maintenance and support issues.

1. Chlorine Residual Analyzer:  
[https://cdn.bfldr.com/7FYZVWYB/at/wcvbc6v39zx8p7wrqvcz6sjv/CL17sc\\_CSI\\_Specifications.docx](https://cdn.bfldr.com/7FYZVWYB/at/wcvbc6v39zx8p7wrqvcz6sjv/CL17sc_CSI_Specifications.docx)
2. Controller:  
[https://cdn.bfldr.com/7FYZVWYB/at/24n6cfrb3trhx3r6ghgg4hr/SC4500\\_CSI\\_Specifications.docx](https://cdn.bfldr.com/7FYZVWYB/at/24n6cfrb3trhx3r6ghgg4hr/SC4500_CSI_Specifications.docx)

### II. Installation

1. Contractor will install the analyzer in strict accordance with the manufacturer’s instructions and recommendation.
2. Manufacturer’s representative will include a half-day of start-up service by a factory-trained technician, if requested.

**III. Manufacturer's Service and Start UP**

1. Contractor will include the manufacturer's services to perform start-up on instrument to include basic operational training and certification of performance of the instrument.
2. Contractor will include a manufacturer's Service Agreement that covers all the manufacturer's recommended preventative maintenance, regularly scheduled calibration and any necessary repairs beginning from the time of equipment startup through to end user acceptance / plant turnover and the first 12 months of end-user operation post turnover
3. Items A and B are to be performed by manufacturer's factory-trained service personnel. Field service and factory repair by personnel not employed by the manufacturer is not allowed.
4. Use of manufacturer's service parts and reagents is required. Third-party parts and reagents are not approved for use.

**IV. Manufacturer's Top Level Part Numbers and associated instruments to be covered with this specification:**

<b>Part Number</b>	<b>Description</b>
SPMP-CL	SPMP- SC4500, CL17SC