

STERLITECH

C o r p o r a t i o n

Expanded Benchtop Data Logging Kit

Assembly and Operation Manual



Introduction

Designed for seamless integration with Sterlitech Benchtop Systems, the Expanded Benchtop Data Logging Kit offers an optimal solution for comprehensive data recording across various applications. The Expanded Benchtop Data Logging Kit features include trend charts, data output, standard and metric data readouts, and 2 easily integrated sensors for Conductivity, Temperature and Permeate Flow Rate values. The unit has displays for each of the individual sensor values and outputs this data to the data logging software on the "CTP Data" Page.

System Features

SYSTEM FEATURE	DESCRIPTION
Data Retrieval	SD Card, Ethernet
Electrical Supply	110V/230V, 50/60Hz, 1 Ph
System Dimensions	12" (H) x 11" (W) x 8" (D)
Conductivity & Temperature Sensor	
Conductivity Range	≥20 µS/cm
Temperature Range	-10 - 70 °C (14 - 158 °F)
Max Pressure	16 bar (232 psi)
Permeate Flow Sensor	
Flow Range	2 - 500 mL/min
Temperature Range	-10 - 60 °C (14 - 140 °F)
Max Pressure	10 bar (145 psi)

Materials of Construction

LOCATION	MATERIALS
Conductivity & Temperature Sensor	316 SS / FKM / PEEK
Permeate Flow Sensor	316 SS / FKM / PEEK

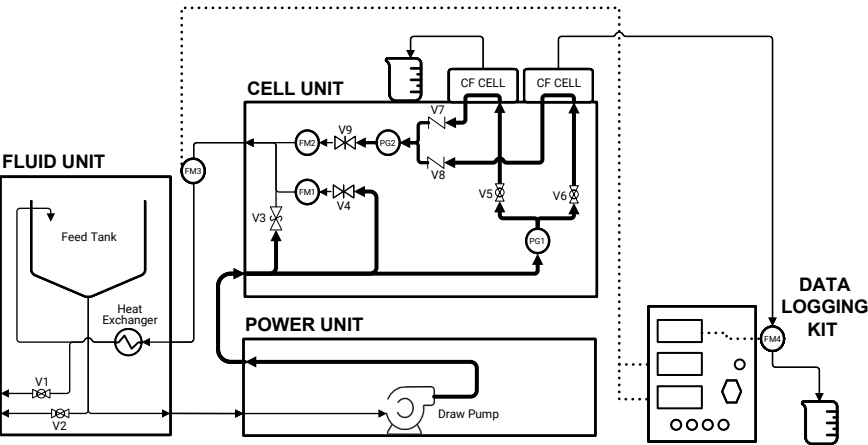
Use this [Chemical Compatibility Chart](#) to check the compatibility of your process fluid with the wetted parts. For fluids not listed, contact Sterlitech.

Temperature Limit

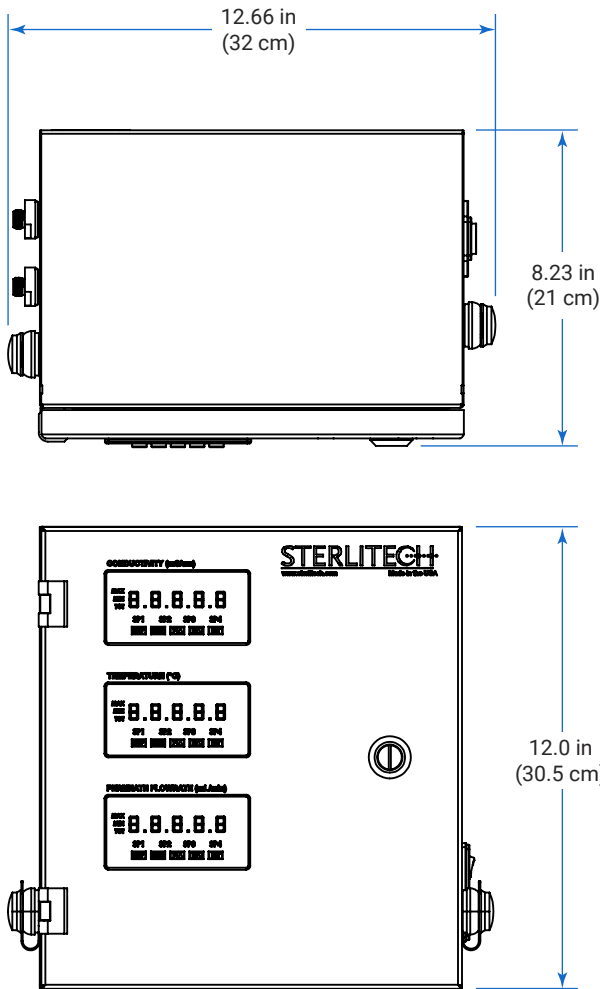
The system should not be operated above 180 °F (82 °C). The membranes, feed/permeate spacers, O-rings, and cell body material may contribute to lower the actual temperature limit of the system.

** Maximum pressure and temperature ratings are dependent on a variety of factors. Listed values are guidelines based upon material properties and cannot be guaranteed in every application.*

System Diagram



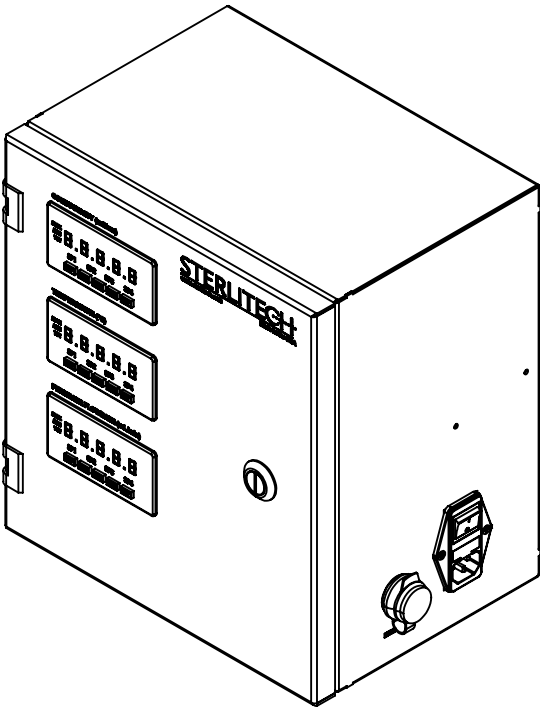
Enclosure Dimensions



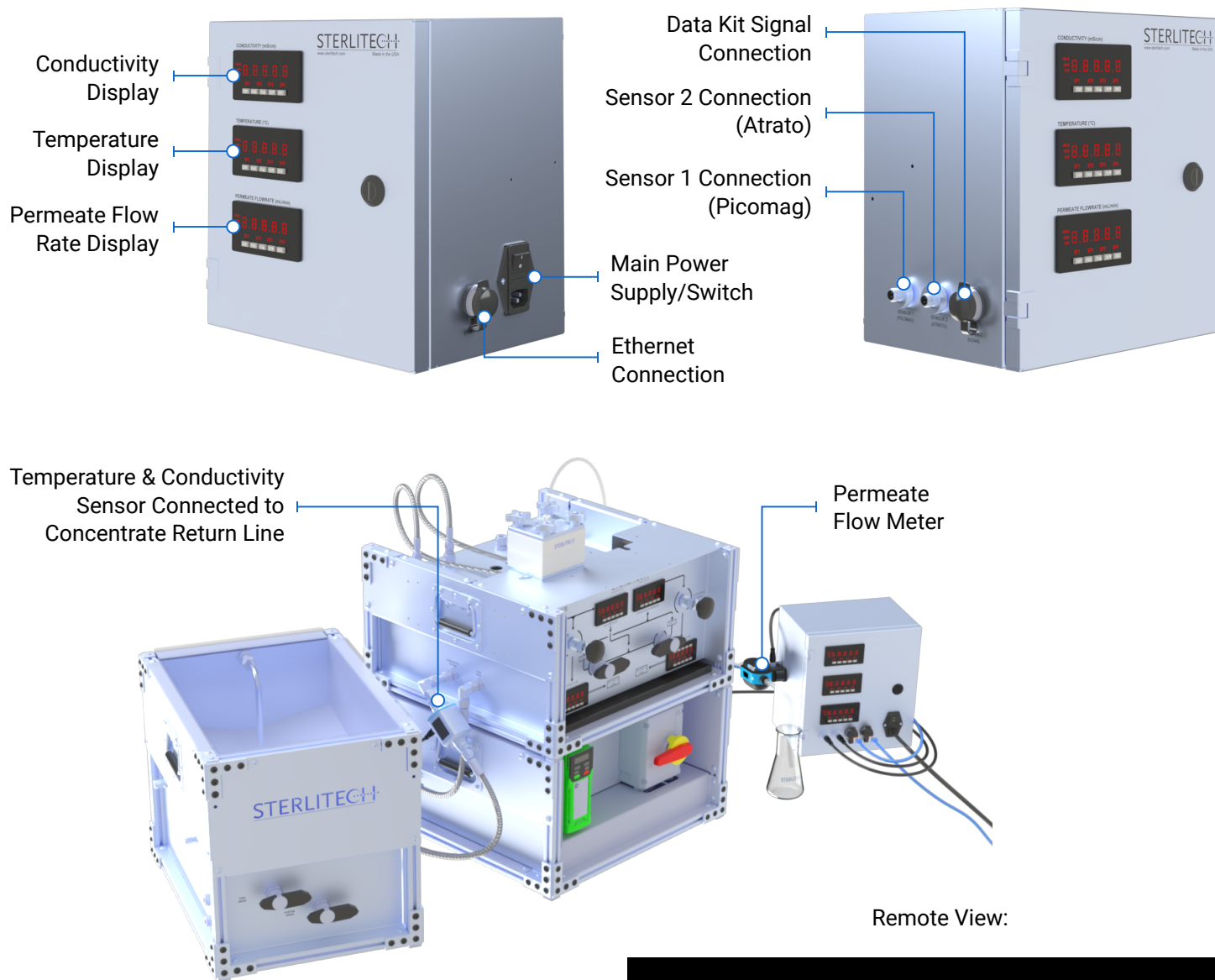
Legend

V1	System Drain Valve
V2	Tank Drain Valve
V3	Pressure Relief Valve
V4	Bypass Valve
V5	Bank Selector Valve #1
V6	Bank Selector Valve #2
V7	Backflow Preventer Valve #1
V8	Backflow Preventer Valve #2
V9	Concentrate Pressure Control
PG1	Feed Pressure Gauge (Digital)
PG2	Concentrate Pressure Gauge (Digital)
FM1	Bypass Flow Meter (Digital)
FM2	Concentrate Flow Meter (Digital)
FM3	Temperature and Conductivity Sensor
FM4	Permeate Flow Meter

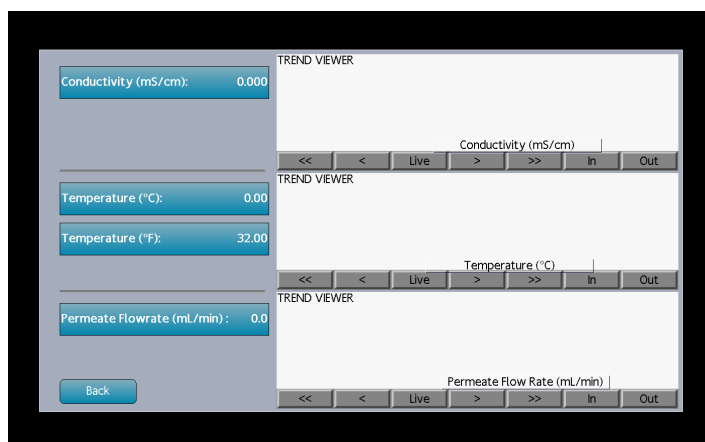
- Electrical Signal
- Low Pressure Fluid Line
- High Pressure Fluid Line



System Overview and Feature Identification



Remote View:



Basic Operating Resources

[Data Logging Video Resources](#)

Including:

- Initial Setup
- Operation
- Updating the Software

Additional Operation Resources

System Testing Best Practices

[CF Filtration Handbook](#)

Includes:

- Basics of Cross Flow Filtration
- FAQs
- Example Studies
- Cutting Custom Membrane Filters
- Preconditioning Membranes
- Temperature Effect on Membranes

[Compression Connection Video](#)

[Cutting Custom Membrane Filters](#)



Maintenance

Pump Maintenance:

Refer to the [Pump Installation and Service Manual](#)

General Maintenance:

Proper flushing/cleaning is recommended after each run (e.g., brackish, seawater, or organic solvents).

This will eliminate the formation of deposits/scales or corrosion of the system.

Replacement Accessories

COMPONENT PART NUMBER	SPARE PARTS AVAILABLE
1201087	Picomag Magnetic Flow Meter with Display, includes Temperature & Conductivity Sensing, 1/2" NPT, 9.2GPM, 30 mS/cm
1201602	Permeate Flowmeter with Display, 20-5,000 mL/min, PEEK & 316SS, 10-24V Power, USB Communication, 3/8" Compression Connection
1200860	Permeate Flowmeter with Display, 2-500ml/min, PEEK & 316SS, 10-24V Power, USB Communication, 3/8" Compression Connection
1201082	M12 Cableset, 4 Position, Female To Female, 6.56' Length
1200468	1/4" OD Polypropylene Tubing, 0.170" ID, Natural Color

Return Material Order Procedure

If materials are to be returned to Sterlitech for repair, evaluation, or warranty consideration, a Return Material Authorization (RMA) number must be obtained from Sterlitech prior to the return. Contact Sterlitech Customer Service Department for return forms and procedures.

Be sure to include a complete, detailed written reason for the return. Also, include serial numbers, installation and removal dates, and any other pertinent information that is available. The crossflow cells have a serial number imprinted on them.

Indicate the proposed disposition of the material and reference the RMA number on all packages or cartons. All material must be shipped to Sterlitech with freight prepared by the customer.

Warranty

The following is made in lieu of all other warranties expressed or implied. Sterlitech Corporation guarantees equipment to be free from defects in material and workmanship when operated in accordance with written instructions for a period of one year from receipt. Parts not manufactured by Sterlitech are covered by their manufacturer's warranties, which are normally for one year.

Manufacturers and Seller's only obligation shall be to issue credit against the purchase or replacement of equipment proved to be defective in material or workmanship. Neither manufacturer nor seller shall be liable for any injury, loss or damage, direct or indirect, special or consequential, arising out of the use of, misuse, or the inability to use such product.

The information contained herein is based on technical data and tests, which we believe to be reliable, and is intended for use by persons having technical skill at their discretion and risk. Since conditions of use are outside Sterlitech's control, we can assume no liability whatsoever for results obtained or damages incurred through the application of the data presented.

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The foregoing may not be altered except by a written agreement signed by officers of the manufacturer.

Technical Assistance

Please contact us if you have any questions or technical inquiries about our products.

Call Sterlitech Corporation at **1-877-544-4420** or email sales@sterlitech.com.

Company Background

Founded in 2001 in Kent, WA, Sterlitech Corporation manufactures and markets filtration-focused laboratory products to a broad spectrum of scientific and industrial sectors. Its line of flat sheet membranes and tangential flow cells deliver industry-leading performance and reliable results. Configured for reverse osmosis, nanofiltration, ultrafiltration, and microfiltration applications, Sterlitech's benchtop cross flow membrane test system provides the versatility required to innovate.

Sterlitech's comprehensive line of products is supported by the expertise of its technical specialists who can assist with application-specific product selection and provide customized solutions where necessary. Unique problem-solving approaches, flexibility, and consistent quality have made Sterlitech Corporation a renowned global provider of filtration products and equipment.

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