

> Control-X Sampler Controller

The SAMPLEX Control-X sampling system controller is a solution designed to optimize and automate hydrocarbon sampling processes, providing a fully configurable system. Being configurable allows the user to perform a simpler and more efficient commissioning process in accordance with the recommendations of API MPMS 8.2, ASTM D4177, and ISO 3171 standards.

Data Processing

The SAMPLEX™ Control-X controller features a powerful processor designed for industrial temperature ranges. The processor, memory, I/O base, and communication components are all integrated onto a single electronic board. The unit's memory capacity allows users to run various versions of the sampling system applications.

Explosive Atmosphere Environment

The SAMPLEX™ Control-X controller is housed in a Class I, Division 1 explosion-proof enclosure, designed to operate in potentially explosive atmospheres. This enables the entire solution to be installed on-site, alongside all components of the automatic sampling system.

Modbus Connectivity

The Modbus network provides full remote access for monitoring and controlling the sampling process. Connection modes include an Ethernet RJ45 port for Modbus TCP or serial connections via RS-485 for Modbus RTU.



Input/Output Functionality

The SAMPLEX™ Control-X controller features a defined capacity of input and output channels, including:

- > Analog Inputs
- > Analog Outputs
- > Digital Inputs
- > Digital Outputs
- > Frequency/Pulse Inputs

Local Display and Monitoring

The unit features a user-friendly interface with an integrated HMI, viewable on its 2.3-inch TFT display. For operation, it includes a capacitive touch keypad, allowing use through the glass surface.

Compatible systems

- Sampling and analysis stations
- Fast-Loop sampling
- Fast-Loop sampling system with dynamic mixing
- Systems with sampler probe/cell

Applications

- Crude oil
- Ship loading/unloading
- Liquefied Natural Gas (LNG)
- Refined products
- Condensates

Features

- Operating philosophy in accordance with API, ISO and ASTM Standards.
- Easy-to-navigate display with configurable bar graph indicators.
- Front panel with through-glass buttons for safe operation.
- Menu-based configuration assistant

Flow/time proportional sampling.

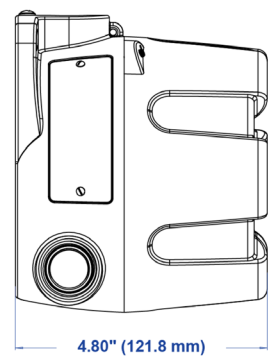
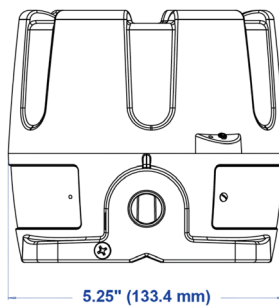
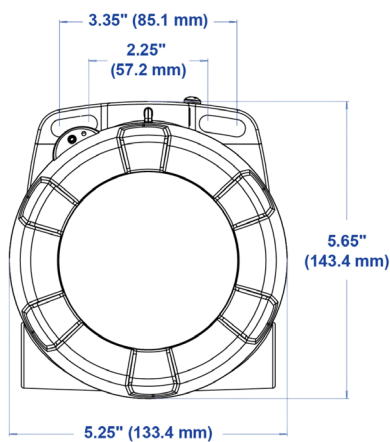
Integrated remote auxiliary control.

Configurable for use with samplers or receivers of any brand.

Configurable sampling system application with the option to customize additional control functions.

Data logging and report storage. Optional: E-mail support for system operability in case of any detected failure.

Floee-weighted averaging.



Specifications

> Physical

4.8 x 5.6 x 4.95 inches (121 x 142 x 125 mm)
12.35 lb (5.6 kg)

> Eléctricas

3 Conduit ports: 3/4" NPTF
1 Conduit port: 1" NPTF

> Ambient temperature

-20 to 70 °C (-4 to 158 °F)

> Approvals

FM / CSA
Class I, Groups A, B, C y D; Class II, Groups E, F y G;
Class III
Class I, Division 2, Groups B, C y D

> Power Supply

24 VDC / 300 mA @ 24 VDC consumption

> Digital Inputs / Outputs

Quantity: 5 input channels / 5 output channels
Input: Volt-free contact
Output: Solid-state relay

> Analog output

Quantity: 1 channel
Output type: 4-20 mA, current supplied
Accuracy: ± 0.035

> Analog input

Quantity: 6 channels
Input type: 4-20 mA
Accuracy: ± 0.035

> Pulse inputs

Quantity: 2 canales
Input type: 0 - 24 V, DC pulse voltage
Maximum frequency: 10 kHz
Accuracy: ± 1 accounts

> Communication ports

Quantity: 2
One Ethernet RJ45 port
One serial RS232/RS485 port
Protocolo de comunicación: Modbus TCP, Modbus RTU

Other SAMPLEX products

- > SP15 Sampler probe
- > SL15 Probe for sampler loop
- > SC15 Sampler cell
- > SR Reciever sampler
- > HPU Hydraulic power unit
- > LM35 Laboratory mixer pump
- > SMS Static mixer
- > SAMPLEX Automatic sampling systema
- > startJET Motorized flow conditioner