

ASC-10-ST

Automated Sample Console - FTIR Sampling Made Easy

The Automated Sample Console (ASC-10-ST™) is designed for fast automated switching between nine different sampling conditions including zero, direct calibrations, system checks and spike recoveries. All sample lines are connected to the back of the ASC-10-ST, so QA/QC tests and zeroing can be performed quickly and allow for source testing to begin within a few minutes. The ASC-10-ST can handle hot and wet samples and is ideal for integration with FTIR gas analyzers such as the MKS MultiGas™ 2030 or Max Analytical MAX™ (FTIR – GC/FTIR) analyzers.

The ASC-10-ST has a whisper quiet heated diaphragm pump that can generate sample flows up to 12 L/min. The ASC-10-ST has three unheated valves (N₂ and two Cal gases) and three heated valves (two sample lines and direct calibration). The ASC-10-ST has three independent heated zones; the manifold oven, sample pump, and heated transfer line. The sample console uses an industry standard T-handle particulate filter for ease of filter replacement. The ASC-10-ST is configured with an MFC, for quick switching between direct, system and spike recovery settings.



**Shown with Optional
MultiGas™ and Cart**

ASC-10-ST™ Features

- MFC controlled gas flows
- Automated sample, direct and system cals and spike recovery settings
- Touch panel HMI to set sample conditions
- Welded gas manifold to prevent leaks
- Pressure control (N₂ and valve actuation)
- 12 L/min heated diaphragm pump (oil free)
- Heated oven, pump and transfer line
- T-handle particulate filter
- 19 ½ inch rack mounted design

Automation Features

- Allen-Bradley PLC control (local or remote)
- ASC-10-ST™ control software

Applications

- FTIR Source Testing
- MAX™ Source Testing
- Continuous Emissions Testing
- Engine Dyno Testing
- Process Analytical Testing
- Ambient Air Testing
- SHED Testing

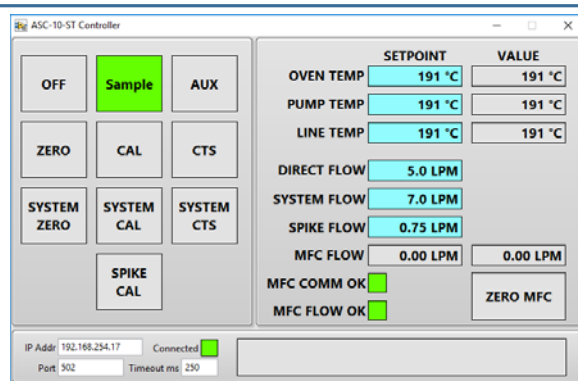
Operational Systems

- Allen-Bradley Control Electronics
- MFC – gas flow controller
- Watlow Heater Controllers
- Sample Console Oven
 - Heated Particulate Filter
 - Heated Sample Valves
 - Radiant Heater
- Diaphragm Sampling Pump
- Communications connections



ASC-10-ST™ Software

The ASC-10-ST™ software allows the user to quickly switch between no flow, sample, zero, direct and system calibrations or spike recovery or without moving from the computer. The ASC-10-ST™ software allows the user to set the three controlled heated zones and observe their current temperatures.



Operational Systems

- Ethernet Communication between computer and ASC-10-ST™
- High Purity Nitrogen source, 10 - 80 psig
- Clean Dry Air (CDA) or N₂, 80 psig
- 25-64 Disposable filter cartridges
- 110VAC 60 Hz
- 850 Watts maximum power

Dimensions

- 19 ½" (W) x 15 ¾" (H) x 23 ¼" (D) [49 ½ cm x 40 cm x 59 cm]
- 95 lbs (43 kg)

MAX
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