

ASC-10 / ASC-10-ST

Automated Sample Console - FTIR Sampling Made Easy

The Automated Sample Console (ASC-10™) is a gas sampling system that will heat and multiplex sample, zero gas and cal gas streams automatically. The ASC-10 can handle hot and wet samples while coupling to nitrogen and calibration streams using a single sampling pump and particulate filter. The ASC-10 is ideal for integration with MAX-iR™ gas analyzers.

The ASC-10 allows for heated sample flows up to 10 L/min, and has three heated valves for automated switching between the three sample channels. The ASC-10 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 can be ordered in a base configuration or a ST (Source Tester) configuration that allows for automated spike recoveries and system checks.



Shown with optional MAX-iR™
And Cart

ASC-10™ Features

- Gas flows controlled by software or manually
- Panel buttons set sample stream and pump
- Welded gas manifold to prevent leaks
- Spiking and system check buttons (ST version)
- Pressure control (N₂ and valve actuation)
- 10 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)
- Ethernet or serial PLC control
- ASC-10™ control software

Applications

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

ASC-10™

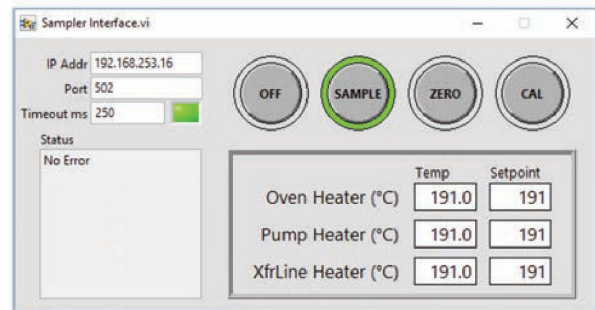
Operational Systems

- Allen-Bradley Control Electronics
- Watlow Heater Controllers
- Sample Console Oven
 - Heated Particulate Filter
 - Heated Sample Valves
 - Radiant Heater
- Diaphragm Sampling Pump
- Plumbing connections
- Communications connections



ASC-10™ Software

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



Operational Systems

- Ethernet or Serial Communication between computer and ASC-10™
- 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 1/2" (W) x 15 3/4" (H) x 23 1/4" (D) [49 1/2 cm x 40 cm x 59 cm]
- 95 lbs (43 kg)



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