SMA

SMA ONETOUCH ICS

The SMA OneTouch® Integrated Control System (ICS) is a computerized, automated viable air monitoring system that controls calibrated, precise air sampling through individual or multiple SMA Atriums®. SMA Atriums are stainless steel collection devices that direct air from the environment to impact onto a media plate. The media plate is then evaluated to determine the amount of viable contamination in the air sample.

The SMA OneTouch ICS strictly regulates the air flow rate throughout a sample cycle. The system automatically alarms the operator visually and audibly if the sample becomes compromised or is aborted. In addition, the SMA OneTouch ICS continuously monitors the air flow rate while sampling and will alert the operator if the flow rate deviates from the established 1 CFM flow rate.

The SMA OneTouch ICS has a touchscreen interface that incorporates facility floor plans and SMA Atrium locations for sample monitoring. User accounts have access levels which limit their access to specific functionality.
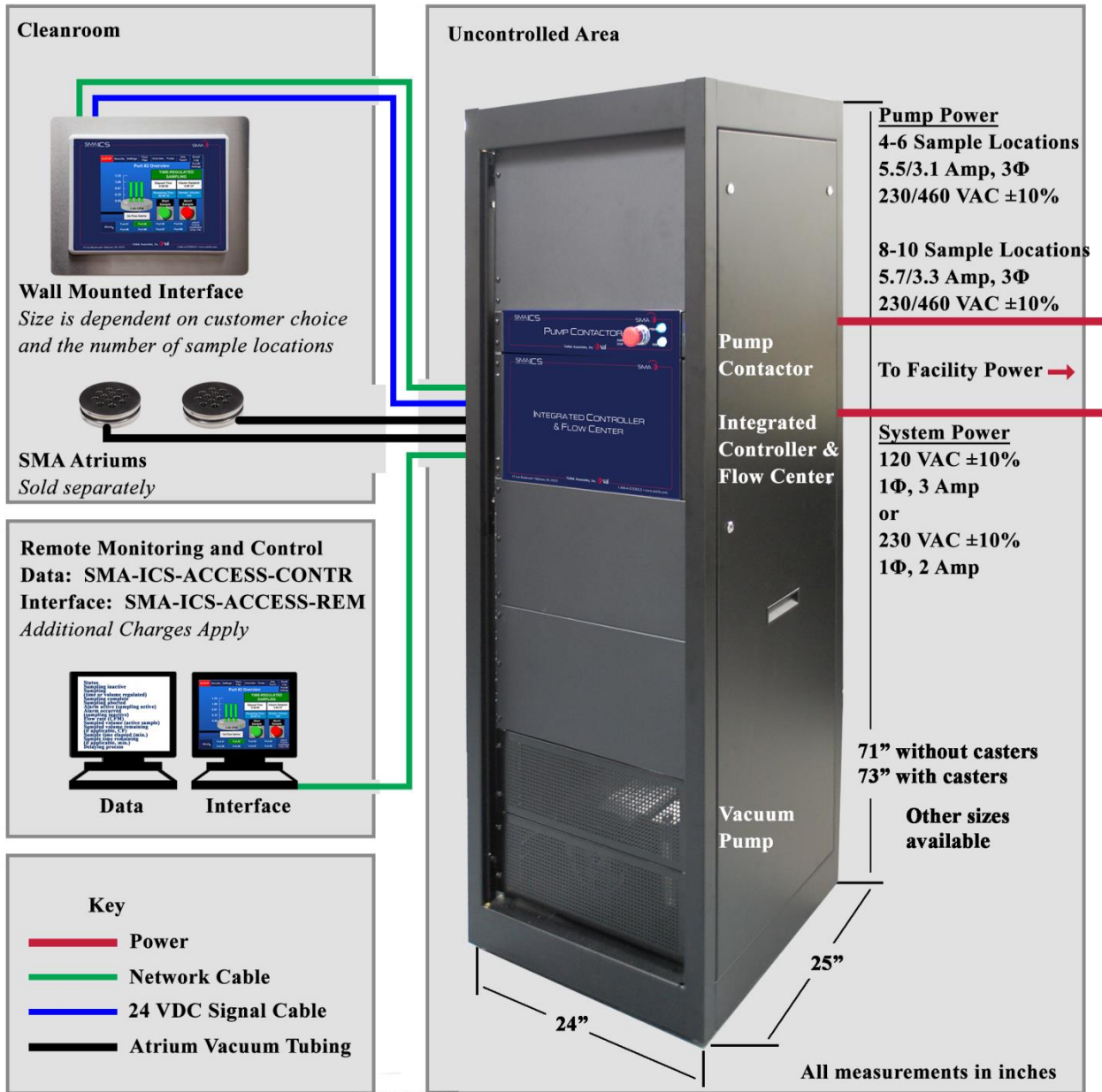
Proven Solutions for Viable Air Monitoring

Product Uses

- Program, start, abort, and monitor all sampling through integrated SMA Atriums

- Monitors all sample parameters (e.g. sample volume, sample duration, and vacuum pump status)

- Provides visual indication of all activity throughout the sampling process

- Immediate audible and visual alarms will sound if the sample is compromised or aborted

Features and Benefits

- Installation requires minimal tubing and wiring which simplifies installation into new and existing facilities

- Can be integrated with existing facility monitoring and data collection systems using industry standard networking

- Provides system-wide viable monitoring capabilities from a single interface

- Can be remotely monitored using a variety of handheld, tablet, and computer-based devices

SMA OneTouch ICS Software Overview

Toolbar Button	Screen Description
E-STOP	Emergency stop aborts sampling for all sample locations.
Security	Login, logout, and modify passwords.
Settings	Configure alarm audio, units of measure, group control, and labels.
Floor Plan	View a generalized status of all sample points.
Overview	View sample point names, locations, status, and flow rate.
Pump	View vacuum pump information and access controls.
One Touch	Control sampling on an interface similar to legacy controls.
Event Log	View a list of the time system events occurred.
About	View the system name, firmware versions, calibration due date, etc.
Port	Initiate, monitor, and abort sampling for individual sample points.

SMA OneTouch ICS Installation Overview

Cleanroom

Wall Mounted Interface
Size is dependent on customer choice and the number of sample locations

SMA Atriums
Sold separately

Remote Monitoring and Control
Data: SMA-ICS-ACCESS-CONTR
Interface: SMA-ICS-ACCESS-REM
Additional Charges Apply

Data   Interface

Key
— **Power**
— **Network Cable**
— **24 VDC Signal Cable**
— **Atrium Vacuum Tubing**

Uncontrolled Area

Pump Contactor

Integrated Controller & Flow Center

Vacuum Pump

Pump Power
4-6 Sample Locations
5.5/3.1 Amp, 3Φ
230/460 VAC ±10%

8-10 Sample Locations
5.7/3.3 Amp, 3Φ
230/460 VAC ±10%

To Facility Power →

System Power
120 VAC ±10%
1Φ, 3 Amp
or
230 VAC ±10%
1Φ, 2 Amp

71" without casters
73" with casters

Other sizes available

25"

24"

All measurements in inches

Rack Size

The rack contains the Integrated Controller & Flow Center, Pump Contactor, and Vacuum Pump. For Isolator Systems, the rack will also contain the Isolator Flow Center. For Isolators a 49 or 73 inch rack height is necessary.

28 inch height	24 × 25 × 28 inches (L × W × H) 60.96 × 63.50 × 71.12 cm
49 inch height	24 × 25 × 49 inches (L × W × H) 60.96 × 63.50 × 124.46 cm
73 inch height	24 × 25 × 73 inches (L × W × H) 60.96 × 63.50 × 185.42 cm

Tubing and Cable Connections

Network Cables	Category 5e networking cable (Cat 5e)
Signal Cables	24 VDC Power and signal cable (4 conductor)
Tubing	¼ and ⅜ inch ID Hytrel lined PVC tubing ⅜ inch ID Vardex reinforced vinyl tubing

Part Numbers

All of the following SMA OneTouch ICS Systems include an Integrated Controller & Flow Center, Vacuum Pump Contactor, and Vacuum Pump.

Choose from a 28, 49, or 73 inch high rack enclosure.

Standard systems are delivered with one wall-mounted Interface. The Interface size is dependent on the number of sample locations. Other options include rack or console-mount.

SMA-ICS-1-A	1 Sampling Location, 6.5" Interface
SMA-ICS-2-A	2 Sampling Locations, 6.5" Interface
SMA-ICS-4-A	4 Sampling Locations, 10.4" Interface
SMA-ICS-6-A	6 Sampling Locations, 10.4" Interface
SMA-ICS-8-A	8 Sampling Locations, 15" Interface
SMA-ICS-10-A	10 Sampling Locations, 15" Interface

Additional Interfaces can be purchased separately, but must be the same size as the original.

Also Available

SMA Atriums
Custom Configurations
SMA OneTouch ICS for Isolators
Connectivity Packages
Additional Interfaces
Validation Packages (IQ/OQ)
Calibration and Service Packages

For sales and service please contact a VAI Sales Representative.
More information is available on Fsma100-1 *SMA OneTouch ICS Order Form*.

These specifications are subject to change.

VAI offers on-site calibration and repair services. Please contact us for details   26JUN2017