



WORLDWIDE LEADER OF SOURCE SAMPLING EQUIPMENT

## ▶ XC-623

### XC-623 SERIES CONSOLE

#### MANUAL SAMPLING OF GASEOUS POLLUTANTS

The **XC-623 Series Console** is designed for manual sampling of gaseous pollutants from stationary sources, e. g. stacks, flues, vents or pipes. The console is most commonly used for EPA Methods 6, 26 and VOST (Methods 0030 and 0031). However, it's suitable for most sampling methods requiring accurate sample volume measurements at constant sample flow rates between 300 ccm to 5 LPM.

This console is housed in rugged and lightweight roto-molded linear low-density polyethylene (LLDPE/LMDE) case three stainless steel carrying handles.

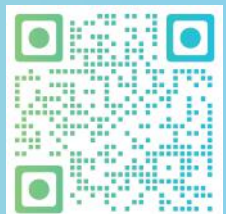


Model XC-623

## A Versatile and Dependable Gas Sampler

### Features

- Three advanced, self-tuning 1/32 DIN temperature controllers with individual solid-state relays are used for controlling heaters
- An easy-to-use 4-button keypad is used to reset the gas volume and elapsed time at the start of each sample period along with other functions
- Console is housed in rugged and lightweight roto-molded linear low-density polyethylene (LLDPE/LMDE) case three stainless steel carrying handles
- Applicable US EPA Methods include Method 4, Method 6, Method 6A, Method 26, and Method 0030





## ▶ XC-623

### XC-623 SERIES CONSOLE MANUAL SAMPLING OF GASEOUS POLLUTANTS

2. Vacuum Gauge    3. Transflective Backlit User Display

1. Main, Pump and AUX Switches

4. Rotameter

5. Flow Control Valve

8. Temperature Controllers

6. Power Output



7. Quick Connect

## Specifications

**Dry Gas Meter:** SK25EX, multi-chamber positive displacement meter fitted with a quadrature encoder, Qmax for air, 4.1 m<sup>3</sup>/h at 220 Pa, Qmin 0.26 LPM, resolution 0.002 Liter, cyclic volume 0.7 liters, 400 pulses per revolution, accuracy 1.5% at volumes greater than 10 liters, type-K thermocouple for exit temperature

**Display:** 4x20 character back-lit transflective liquid crystal display, viewing area 74 mm x 45 mm, operating temperature -20 to 70°C

**Flowmeter:** precision stainless steel venturi orifice with a pressure transducer, range 0 – 5 inH<sub>2</sub>O (0-1245 Pa) resolution of 0.01 inH<sub>2</sub>O (1 Pa)

**Internal Sample Pump:** dual-head diaphragm, 8.0 LPM free flow, max vacuum 23 inHg (-230 mbar abs.), 12 VDC brushless motor

**Temperature Measurement:** cold junction-compensated type-K thermocouple-to-digital converter °C/°F selectable, -200°C to 1372°C range. (-328°F to 2502°F). 6-channel rotary switch, up to 5 addition type-K thermocouple inputs, standard size jacks

**Probe, Filter, Aux. Temperature Control:** Fuji PXR3 compact, 1/32 DIN self-tuning PID temperature controller with 3-button keypad, solid-state driver for 25-amp solid state relay, type-K thermocouple jack for input

**DGM Pressure:** high-resolution digital sensor, factory-calibrated, and temperature-compensated -20C to 70C, range bi-directional +/- 5.0 inH<sub>2</sub>O (+/-1245 Pa) with 0.001" (1 Pa) resolution, proof pressure 49 kPa, accuracy better than 0.25%

**Umbilical Connection:** electrical multi-conductor circular connector, instrumental grade stainless steel quick-connects for sample inlet: 1/4-inch, pitot connections: 1/4-inch, type-K thermocouples inputs: aux, stack, probe, oven, exit

**Power:** supply 120 VAC at 60 Hz 15 amps maximum or 240 VAC at 50 Hz 10 amps maximum, IEC C-13 inlet

**Dimensions:** H17" x W17" x D12" (43 cm x 43 cm x 30.5 cm)

**Weight:** 296 lbs (13.4 kg)