# APEX
## INSTRUMENTS

## WORLDWIDE LEADER OF SOURCE SAMPLING EQUIPMENT

## ▷ XD-502

### DIGITAL ISOKINETIC SOURCE SAMPLING CONSOLE

#### NEW GENERATION

The new generation of our **XD-502 Digital Source Sampling Console** monitors gas velocities, temperatures, sample flow rates and volumes for maintaining isokinetic sampling conditions. This next generation console includes highly requested features and capabilities from our customers and can easily be adapted to all isokinetic testing methods including OTM-45 and OTM-50 for PFAS.

Presenting a new look and feel, some new features include a physical buzzer that has been added to front of the console for the traverse point alarm, along with a Wifi module for increased flexibility of connection, and an additional USB C charging port. This new generation XD-502 also includes increased processing power, multiple language support within the software and data export, and general software and firmware improvements. The console can be ordered without the internal pump and used with any external pump.
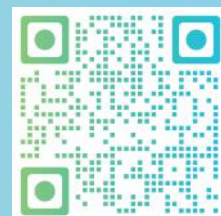


**Model XD-502**

## Next Generation Digital Source Sampling Console with New Features and Capabilities

## Features

- Rugged lightweight case with 3 heavy duty stainless steel handles
- Additional USB A added on the front of the console for data export without the need for a PC
- Easy-to-use display, indoor or outdoor readable
- Wifi module for increased flexibility of connection from the PC to the console
- Adjustable physical buzzer added to the front of the console for the traverse point alarm

- Non-resettable Lifetime DGM Counter added to the firmware to record the "lifetime" value of the DGM
- Multiple language support added to firmware and data export
- CE Marked
- Additional USB C charging port for devices
- Advanced Software for Windows PC

# APEX INSTRUMENTS

▷ # XD-502 New Generation
## DIGITAL CONSOLE
### MULTI-FUNCTION SUNLIGHT READABLE DISPLAY

1. Probe Temperature Controllers

2. Oven Temperature Controllers

3. Multi-Function Display

4. Readout Area for Sampling Measurements and Operations

5. Membrane Switch User Buttons for Display Control

6. USB Data Export

7. Flow Control Valves

8. Stainless Steel Quick Connects

9. USB C Port

10. Traverse Point Alarm



## Specifications

**Display:** 4×20 character backlit transflective liquid crystal display, including membrane switch for navigation of menu and sampling operations

**Dry Gas Meter:** Model SK25EX, with 100 CPR quadrature encoder, 0.7L/rev., 41 lpm max

**Flow Indicator:** Precision-machined stainless-steel orifice with a pressure transducer, range 0 – 5 in H2O (1245 Pa) resolution of 0.01" (1 Pa)

**Temperature Measurement:** 8-channel individually isolated type-K thermocouple meter, °C/°F selectable, -200 °C to 1372 °C range. (-328 °F to 2502 °F)

**Probe Temperature Control:** Compact, 1/32 DIN auto-tuning indicating temperature controller with separate 25-amp solid-state relay; type-K jack for input

**Digital Pressure Transducers:**
$\Delta P$ +/- 1.0" (+/-249 PA) and +/- 10.0" (+/-2491 Pa) range bi-directional with 0.001" (1 Pa) resolution

$\Delta H$ +/-5.0" (+/-1245 Pa) range bi-directional with 0.01" (1 Pa) resolution ($\Delta P$ automatically selects appropriate transducer for current flow)

**Data Export:** USB batch downloads using included software

**Alarm Buzzer:** 12V

**Vacuum Gauge:** Digital Scale, 0 to 30" Hg or 0 to 100kPa

**Umbilical Connection:**
- Electrical: 5 pin conductor circular connector with ground
- Sample Inlet: 1/2" stainless steel instrumental quick-connect (alt. sizes available)
- Pitot Connections: 1/4" stainless steel instrumental quick-connects
- Thermocouples: aux, stack, probe, oven, filter, exit

**Power:** Supply 120V, 150W, 24V/6.3A, IEC C-14 Inlet.

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

**Weight:** 40 lbs (18 kg) base

**Internal Sample Pump:** KNF Dual Head Diaphragm, 70 lpm free flow, 21 lpm @ -50kPa, max vacuum -85 kPa, 24 VDC Brushless Motor

HAVE A QUESTION? CALL US **(919) 557-7300**