



WORLDWIDE LEADER OF SOURCE SAMPLING EQUIPMENT

## ► XD - 502

### DIGITAL ISOKINETIC SOURCE SAMPLING CONSOLE LIGHTER. SMALLER. EASIER.

The **XD-502 Digital Source Sampling Console** monitors gas velocities, temperatures, pressures, sample flow rates and volumes for maintaining isokinetic sampling conditions. This console can easily be adapted to all isokinetic methods including (OTM)-45 for PFAS.

The console uses an internal diaphragm pump, reducing the weight of the console and pump from 80 lbs to 40 lbs (a 50% reduction). The console can be ordered without the internal pump and used with any external pump.

The XD-502 also includes our multi-function sunlight readable transfective display, an easy-to-use 4 button keypad provides access and control of sampling operations such as auditing and calibrating. Equipped with the Peak 32 micro-controller module, the console accommodates user-adjustable dampening for stable display of the  $\Delta P$  and  $\Delta H$  values. With easy-to-use software and data acquisition you will want to carry it around like the Stanley Cup!

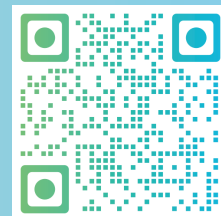


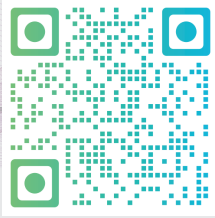
**Model XD - 502**

Lighten the load on your back with this lightweight, digitally enhanced sampling console.

## Features

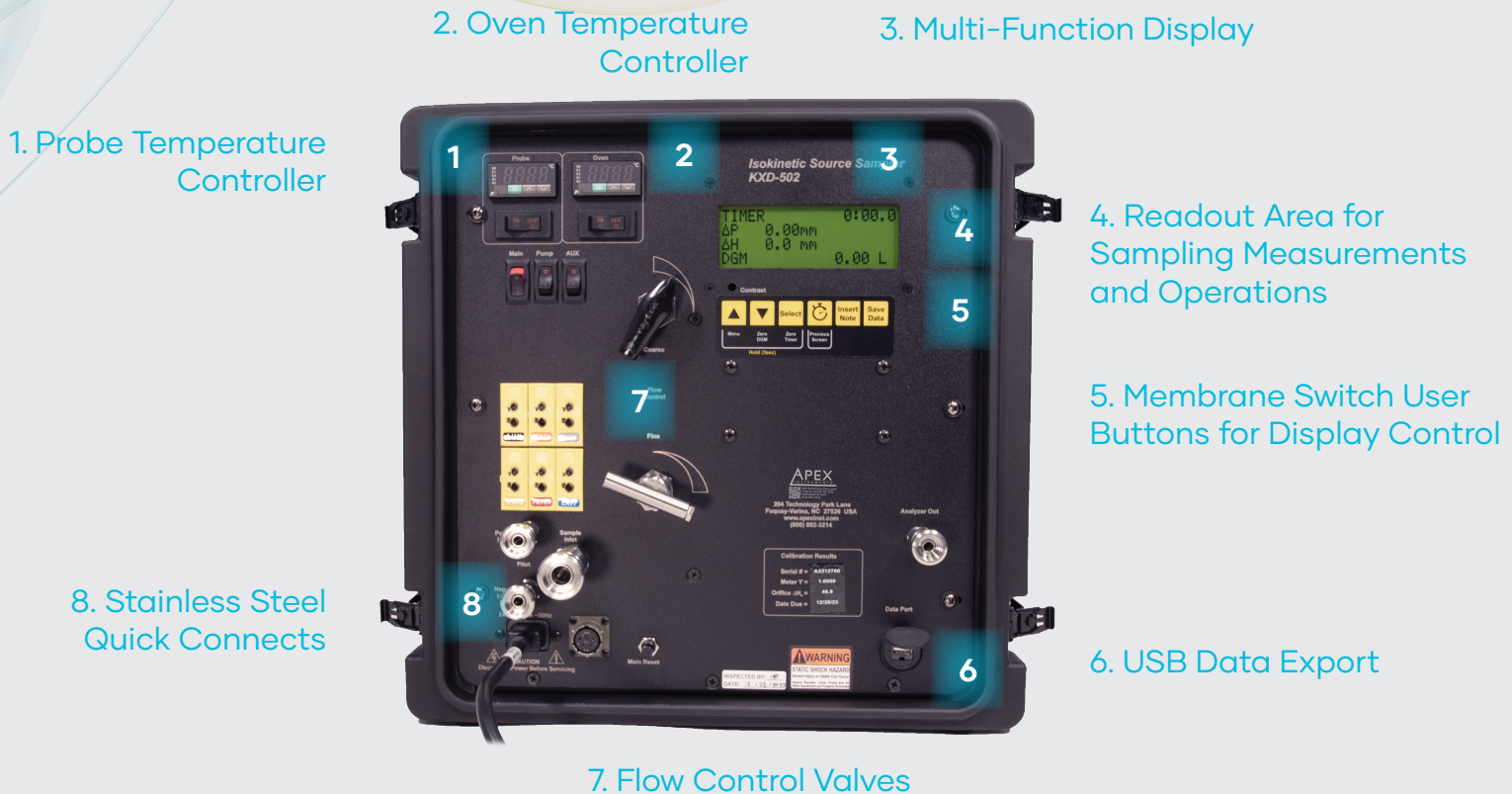
- Rugged lightweight case with 3 heavy duty stainless steel handles
- USB Data Export - streaming or batch downloads using our intuitive console software
- Indoor or outdoor readable, easy-to-use display
- SK-25 Precision Dry Gas Meter with Digital Optical Encoder
- Digital vacuum gauge
- Digital temperature display with 6 Type-K inputs plus DGM and internal
- All stainless steel fittings and control valves
- Digital PID temperature controllers for probe and oven
- Digital elapsed timer (hr:min:sec)
- Easy access for service (mounted in case)





## ▷ XD - 502 DIGITAL CONSOLE

### MULTI-FUNCTION SUNLIGHT READABLE DISPLAY



## Specifications

**Display:** 4x20 character backlit transfective 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 H<sub>2</sub>O (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:** KDF Dual Head Diaphragm, 70 lpm free flow, 21 lpm @ -50kPa, max vacuum -85 kPa, 24 VDC Brushless Motor



# **XD-502** **LEGEND**

**XD-502**   -

## **Pump Options:**

**BLANK** = Internal Pump Only  
(Standard)

**P** = Fittings for Additional  
Pump Installed (Female/Female)

**XP** = No Internal Pump (Male and Female)

## **Power Output Option:**

**A** = 5 Pin Amphenol  
(Size 14S Shell - Male/97 Series)

**B** = 5 Pin Amphenol  
(Size 14 Shell - Bayonet Style/PT Series)

**C** = 5 Pin Amphenol  
(Size 16S Shell - Male/97 Series)

## **Temperature Controller Option:**

**BLANK** = English

**M** = Metric

## **Analyzer Output Option:**

**BLANK** = None

**A** = 1/4" Valved Female  
Quick Connect

## **Pitot Quick Connects:**

**BLANK** = 1/4" Instrumental

**QS6** = 3/8" Instrumental

## **Spare TC Option:**

**BLANK** = Case Temperature

**I** = DGM Inlet Temperature

## **Voltage:**

**BLANK** = 120V

**V** = 240V