



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 ΔP and ΔH 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

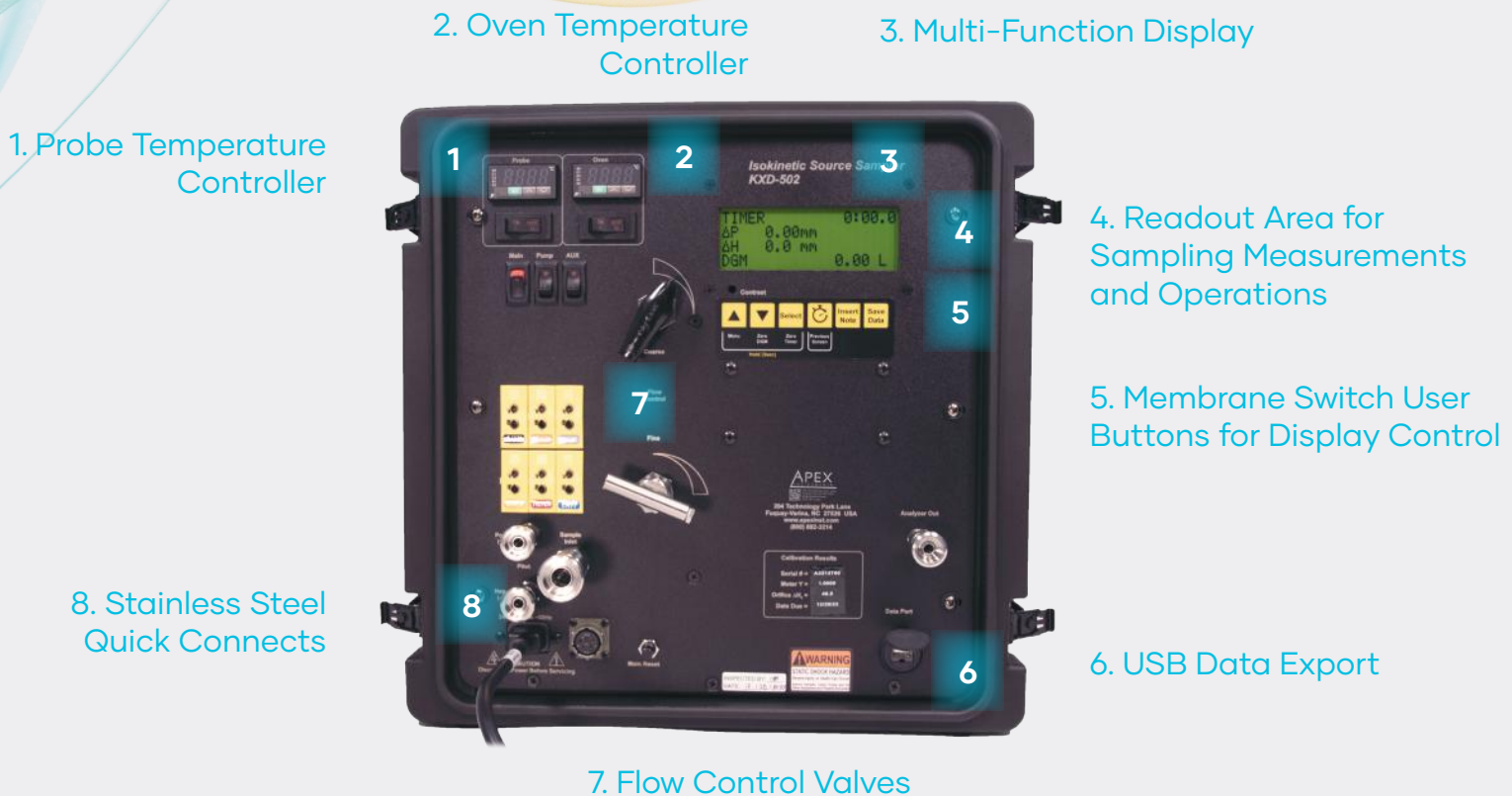
- Rugged lightweight case with 3 heavy duty stainless steel handles
- USB Data Export - streaming or batch downloads using our intuitive console software
- Indoor or outdoor readable, easy-to-use display
- SK-25 Precision Dry Gas Meter with Digital Optical Encoder
- Digital vacuum gauge
- Digital temperature 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 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: ΔP +/- 1.0" (+/-249 PA) and +/- 10.0" (+/-2491 Pa) range bi-directional with 0.001" (1 Pa) resolution

ΔH +/-5.0" (+/-1245 Pa) range bi-directional with 0.01" (1 Pa) resolution (ΔP 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