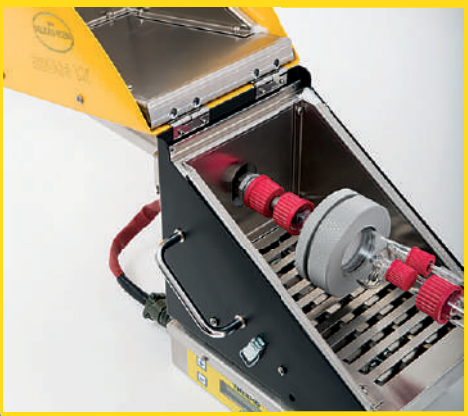
X1-PROBE

- Heated probe
- Separate tube for gas sampling
- Independent temperature regulation (BOX/TUBE) UP TO 200 °C
- Auxiliary temperature sensor input plugs
- Data logger function
- Compliant with
  EN 13284-1
  EN 1948-1
  EN 14385
  EN 13211
  EN 1911



X1-PROBE

Heated probes keep filter temperatures medium-high, when sampling dust emissions, micro-pollutants, metals and acids, to prevent the condensation of substances in the gas samples.

X1-PROBE is an innovative heated probe that is original, in that it includes a sampling tube, a measuring tube (Darcy) and a separate tube for gas sampling in the heated tube. The heating pipe and the external box are made of specifically thermal resistant armoured stainless steel to guarantee excellent function, even with high humidity in the chimney.

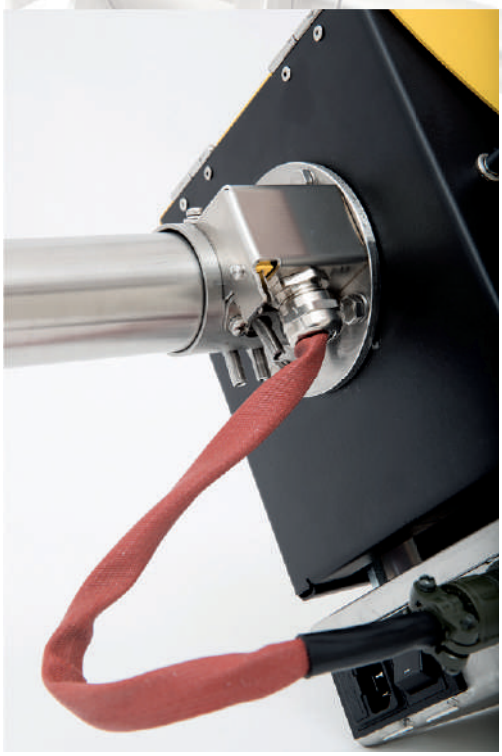
It works for sampling on any duct because the external box can be separated from the heated pipe and mounted, and rotated 90 °, for collecting on horizontal ducts.

A tank with a train of impingers may be attached to the external box.
This is ideal for sampling metals and/or acids.
Alternatively, the X1-CONDENSER, which is ideal for sampling micro-pollutants / PAHs may be connected.

FID analyzers from any manufacturer or from an independent sampling line can be connected to the additional gas sampling tube.

By connecting Mega System analyzers, equipped with an oxygen sensor (PARAMAGNETIC) and a carbon dioxide sensor (NDIR), effluent gas density may be calculated, (in compliance with current regulations), even during isokinetic sampling.

Heated tube and external box temperatures are adjustable up to 200 °C and are controlled independently by the thermoregulator (THERMO), which is located under the external box.



The thermoregulator is equipped with 2 input plugs for auxiliary temperature sensors and a USB port for data download. The data logger function can record temperature values at programmable intervals.

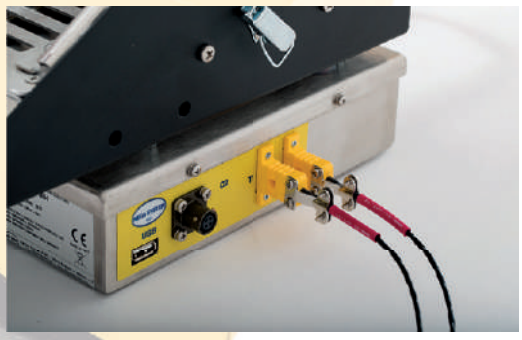
The T1 sensor is used to detect filter temperature inside the box, while the T2 sensor is used to detect the temperature at the condenser outlet for micro-pollutants.

On request, the probe may be predisposed for connection via serial cable to the XI-APIS isokinetic sampler, for the purpose of regulating and automatically recording all temperature signals from the probe to the X1-APIS.

The devices and accessories to be inserted in the heated probe are available in glass, quartz, titanium and stainless steel.

The heated probe is made of stainless steel to ensure the required resistance to temperature and corrosion caused by the aggressive gases in the duct, but the particular design of this unit makes it practical, light and easy to transport.

X1-Probes are available in various lengths:
500 mm - 1000 mm - 1500 mm - 2000 mm - 2500 mm - 3000 mm.



X1-PROBE

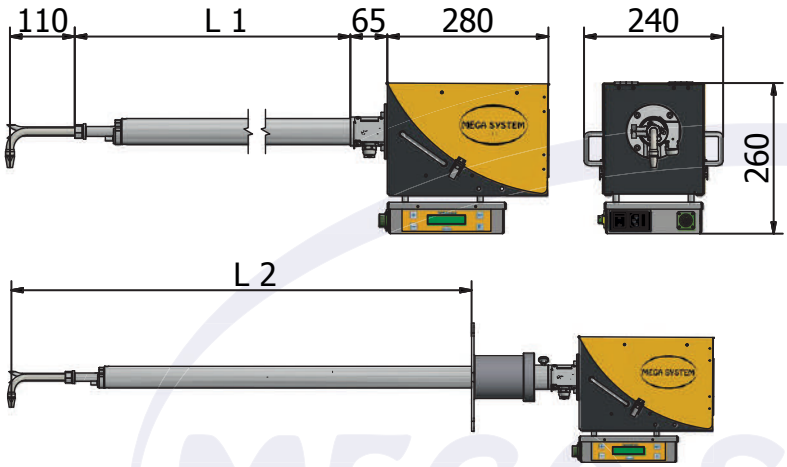
Standard Length [mm] L1	L with slider [mm] L2
500	450
1000	950
1500	1450
2000	1660
2500	2160
3000	2660

TECHNICAL SPECIFICATIONS

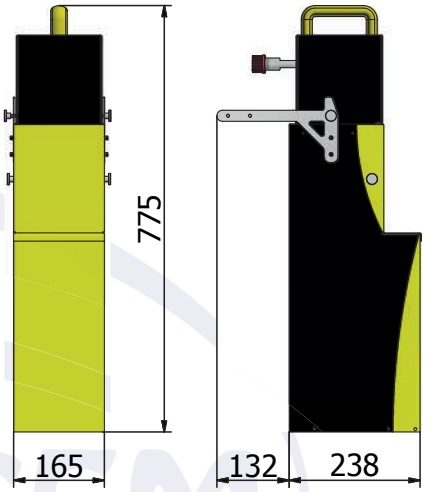
Temperature	
Tube heating temperature	Range: 100 ÷ 200 °C
Box heating temperature	Range: 100 ÷ 200 °C
Type J Thermocouple (T1)	Range: 100 ÷ 200 °C Resolution: 1 °C Accuracy: ± 2 °C
Type J Thermocouple (T2)	Range: 0 ÷ 50 °C Resolution: 1 °C Accuracy: ± 2 °C
Interfaccia, archiviazione dati	
Display	Alfanumeric LCD (16x2)
Interface	USB (on Pen Drive)
Environmental Conditions	
Working Temperature Range	Max 350 °C
Energy	
Power	230 Vac – 50 Hz
Consumption	
Box	600 W
Tubes	Max 2000 W
Options	
Connection to isokinetic sampler model X-APIS for temperature control via serial cable.	
Supplied With	
Technical Manual	
Test report	

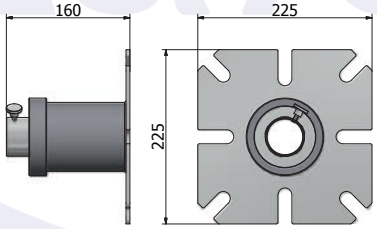
Data sheet n. 03-005-R00 - X1-Probe

X1-PROBE

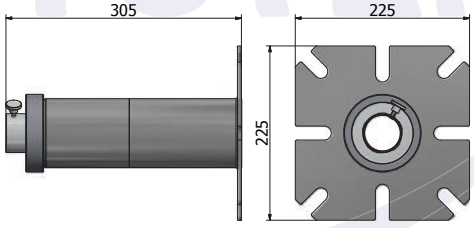


X1-CONDENSER





Slider for
X1-PROBE
LG ≤ 1500 mm



Slider for
X1-PROBE
LG ≥ i 2000 mm

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