



CP5: Cold Isokinetic Probe for Particulate Sampling



The CP5 represents the next generation of the classic cold isokinetic sampling probe, specifically designed for particulate emission sampling.

Drawing inspiration from the HP5 heated probe, it incorporates innovative features that make stack sampling easier, safer, and more practical.

Constructed entirely from AISI 316 stainless steel, the CP5 combines an 8 mm sampling tube, a thermocouple for flue gas temperature measurement, and a removable Pitot S terminal within a compact body just 52 mm in diameter.

Available in lengths up to 3 meters, it delivers exceptional durability and reliability even under demanding conditions.

Its streamlined design, paired with a dedicated sliding unit, simplifies insertion and removal from the ducts while enabling rotation along its axis for quick swirl angle checks, as required by EN16911.

The CP5 complies with major regulatory standards, including EN UNI 16911 for velocity and flow determination, EN ISO 13284-1, ISO 9096:2017, and US EPA Method 17 for low-concentration particulate measurement.

To minimize transport damage, the Pitot terminal is detachable, and the thermocouple can be retracted inside the probe body. Rear connections are safeguarded by a robust steel handle, which also serves as a lifting point.

47 mm Filter Holder

The filter holder features a removable cassette with a steel or Tempcoat-coated grid, designed for easy filter removal. Its fine-mesh grid ensures uniform sample distribution and reduces filter breakage risk, while a clamping ring secures the filter during sampling.

2-S Dual-Stage Impactor

Manufactured from titanium and compliant with ISO 23210, this impactor enables simultaneous PM10 and PM2.5 fraction sampling. Supplied with an operating flow rate spreadsheet, it supports metal sampling and offers superior maneuverability thanks to titanium's lightweight properties. The Dado Lab 47 mm titanium filter holder (sold separately) completes the setup.

Slide & Lock device:

The anodized aluminum and steel fixing system weighs just 1.5 kg and is compatible with flanged nozzles from 4" to 5" (DN80, DN100, DN125). Internal rotating drums simplify probe insertion and removal, while the freely rotating flange allows easy mounting and swirl angle checks using an inclinometer.

Built from premium materials, the CP5 withstands temperatures up to 600°C, ensuring exceptional resistance and reliability.

Part Number and accessories

CP5 probe

101 102 1011	CP5 probe L = 0,5m
101 102 1012	CP5 probe L = 1,0m
101 102 1013	CP5 probe L = 1,5m
101 102 1014	CP5 probe L = 2,0m
101 102 1015	CP5 probe L = 2,5m
101 102 1016	CP5 probe L = 3,0m
101 102 2030	"S" Type Pitot - Out Stack Version
101 106 2011	Slide and lock device 2" with adapter/flange 4"
101 107 2030	ST2 locking system for CP5

Gooseneck and nozzles

101 102 2080	Leak test cap
101 102 2081	AISI 316 gooseneck for nozzles
101 102 2082	AISI 316 nozzle diam. 4mm
101 102 2083	AISI 316 nozzle diam. 5mm
101 102 2084	AISI 316 nozzle diam. 6mm
101 102 2085	AISI 316 nozzle diam. 7mm
101 102 2086	AISI 316 nozzle diam. 8mm
101 102 2087	AISI 316 nozzle diam. 9mm
101 102 2088	AISI 316 nozzle diam. 10mm
101 102 2089	AISI 316 nozzle diam. 11mm
101 102 2090	AISI 316 nozzle diam. 12mm
101 102 2091	AISI 316 nozzle diam. 14mm
101 102 2092	AISI 316 nozzle diam. 15mm
101 102 2093	AISI 316 nozzle diam. 16mm

Connection cable

101 101 2200	Connection cable CP5 w/ external suction tube L = 5m
101 101 2210	Connection cable CP5 w/ external suction tube L = 10m
101 101 2220	Connection cable CP5 w/ external suction tube L = 15m
101 101 2230	Connection cable CP5 w/ external suction tube L = 20m
101 101 2240	Connection cable CP5 w/ external suction tube L = 25m
101 101 2241	Connection cable CP5 w/ external suction tube L = 30m

Filterholder 47mm

101 102 1430	47mm AISI316 Filterholder
101 102 1432	Box of 5 AISI316 grids for 47mm Filterholder cartridge
101 102 1435	Spare AISI 316 cartridge for 47mm filters
101 102 1440	Spare Tempcoat® cartridge for PFAS kit
101 102 1450	Set of 10 Viton gaskets for 47mm filterholder, max T 200°
101 102 1451	Set of 10 GF gaskets for 47mm filterholder, max T 350°
101 102 1452	Set of 10 high temp gaskets (850°C) for 47mm filterholder

Impactor PM10 PM2.5

101 102 1501	2-stages impactor for PM10/2.5
101 102 2032	"S" Type Pitot Extension for Impactor
101 102 1410	47mm Titanium Filterholder

Technical Characteristics

Thermocouple input	Standard curve programmed type 'K' according to ITS 1990
Range	-20 ÷ 1200 °C
Resolution	0.01 °C
Accuracy	1% of the measurement ± 0.4 °C

Dimensions (mm)

