

Annex to declaration of accreditation (scope of accreditation)
 Normative document: EN ISO/IEC 17025:2017
 Registration number: **K 149**

of **TPF Control B.V.**

This annex is valid from: **23-10-2025 to 01-12-2029**

Replaces annex dated: **24-04-2024**

Location(s) where activities are performed under accreditation

Head Office

Van Heemstraweg 19
 6657 KD
 Boven-Leeuwen
 The Netherlands

Location	Abbreviation/ location code
Van Heemstraweg 19 6657 KD Boven-Leeuwen The Netherlands	BL
On site at the customer	CU

HCS code	Measured quantity, Instrument, Measure	Range	CMC ¹	Remarks	Location
FG 1 0	FLOW OF GAS				
FG 1 0	Gas flow rate	0.5 ml/min – 5 ml/min	0.50 %		BL
		5 ml/min – 100 l/min	0.18 %		
		0.5 m ³ /h – 2500 m ³ /h	0.30 %		
FG 1 0	Gas flow rate	5 ml/min – 50 l/min	0.27 %		CU
		0.8 m ³ /h – 1000 m ³ /h	0.38 %		

¹ Calibration and Measurement Capability (CMC): Demonstrated measurement uncertainty, with coverage probability of 95%, in a given measurement point or measurement range. Measurement uncertainty, *U*, is calculated according to EA-4/02 "Evaluation of the Uncertainty of Measurement in Calibration".

This annex has been approved by the Board of the Dutch Accreditation Council, on its behalf,

J.A.W.M. de Haas

of **TPF Control B.V.**

This annex is valid from: **23-10-2025 to 01-12-2029**

Replaces annex dated: **24-04-2024**

HCS code	Measured quantity, Instrument, Measure	Range	CMC ¹	Remarks	Location
FG 1 1	Gas mass flow rate	0.5 ml _n /min – 5 ml _n /min	0.50 %		BL
		5 ml _n /min – 50 l _n /min	0.18 %		
		0.5 m ³ _n /h – 2500 m ³ _n /h	0.30 %		
FG 1 1	Gas mass flow rate	0.5 ml _n /min – 50 ml _n /min	0.12 %	Viscous seal piston provers	BL
		5 ml _n /min – 100 l _n /min	0.15 %		
FG 1 1	Gas mass flow rate	5 ml _n /min – 50 l _n /min	0.27 %		CU
		3 m ³ _n /h – 1000 m ³ _n /h	0.38 %		
TE 0 0	TEMPERATURE				
TE 4 0	Self-indicating thermometers	-80 °C – -40 °C	0.1 °C	Using dry block furnace	BL
		140 °C – 400 °C	0.2 °C	Using dry block furnace	
		-40 °C – 140 °C	0.015 °C	Using oil bath	
		0 °C – 50 °C	0.2 °C	In air	
RH 0 0	HUMIDITY				
RH 1 0	Hygrometers	10 %rh – 95 %rh	1.1 %rh	20 °C – 55 °C	BL
PV 0 0	PRESSURE AND VACUUM				
PV 1 0	GAS PRESSURE				
PV 1 1	Absolute pressure	0.2 kPa – 1000 kPa	$1.4 \cdot 10^{-5} \cdot p + 45 \text{ Pa}$		BL
PV 1 1	Absolute pressure	75 kPa – 115 kPa	15 Pa		BL
PV 1 2	Gauge pressure	-95 kPa – 1000 kPa	$2.2 \cdot 10^{-5} \cdot p_e + 36 \text{ Pa}$		BL

Remarks:

- Calibration and Measurement Capability (CMC): Demonstrated measurement uncertainty, with coverage probability of 95 %, in a given measurement point or measurement range
- Measurement uncertainty, U, is calculated according to EA-4/02 "Evaluation of the Uncertainty of Measurement in Calibration".
- The flow units ml_n/min and m³_n/h refer to gases under normal (n) conditions of 1013.25 mbar and 0 °C.
- The flow units ml/min and m³/h refer to gases under actual (flowing or line) conditions.
- Fixed normal densities ρ_n [kg/m³] are used to convert from the flow unit [l_n/min] to the mass flow unit [g/h].
- Densities according to NEN-EN-ISO 6976:2016.