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: **20-01-2022** to **01-12-2025** Replaces annex dated: **22-07-2020**

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 – 5 ml/min	0.60 %		BL
		5 – 100 000 ml/min	0.18 %		
		0.5 – 2 500 m ³ /h	0.25%		
FG 1 0	Gas flow rate	5 – 50 000 ml/min	0.27%		CU
		0,8 – 1 000 m ³ /h	0.35%		

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

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HCS code	Measured quantity, Instrument, Measure	Range	CMC ¹	Remarks	Location
FG 1 1	Gas mass flow rate	0.5 – 5 ml _n /min	0.60 %		BL
		5 – 50 000 ml _n /min	0.18 %		
		0.5 – 2 500 m ³ _n /h	0.25 %		
FG 1 1	Gas mass flow rate	5 – 100 000 ml _n /min	0.15%	Viscous seal piston provers	BL
FG 1 1	Gas mass flow rate	5 – 50 000 ml _n /min	0.27%		CU
		3 – 1 000 m ³ _n /h	0.35%		
TE 0 0	TEMPERATURE				
TE 4 0	Self-indicating thermometers	-80 °C to -40 °C	0.1 °C	Using dry block furnace	BL
		140 °C to 400 °C	0.2 °C	Using dry block furnace	
		-40 °C to 140 °C	0.015 °C	Using oil bath	
		0 °C to 50 °C	0.2 °C	In air	
RH 0 0	HUMIDITY				
RH 1 0	Hygrometers	10 %rh – 95 %rh	1.7 %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 – 1 000 kPa	0.7·10 ⁻³ ·p + 25 Pa		BL
PV 1 1	Absolute pressure	50 – 115 kPa	1.7·10 ⁻⁴ · <i>p</i>		BL
PV 1 2	Gauge pressure	-95 kPa – 1 000 kPa	0.7·10 ⁻³ · <i>p</i> _e + 25 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 on [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.

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