

of **EuroLoop Calibrations B.V.**

This annex is valid from: **17-03-2022** to **01-01-2025**

Replaces annex dated: **19-11-2020**

Location(s) where activities are performed under accreditation

Head Office

Petroleumweg 36
 3196 KD
 Vondelingenplaat Rotterdam
 The Netherlands

| Location | Abbreviation/ location code |
|---|-----------------------------|
| Petroleumweg 36 3196 KD Vondelingenplaat Rotterdam The Netherlands | RDM |

| HCS code | Measured quantity, Instrument, Measure | Range | CMC ¹ | Remarks | Location |
|----------|--|--------------------------------|-----------------------------|--|----------|
| FG 1 0 | Gas Flow | | | | RDM |
| FG 1 1 | Gas flow rate | Same flow ranges as for VG 1 0 | Uncertainties as for VG 1 0 | Volume flow rate [m ³ /h] at actual conditions Mass flow rate [kg/h] | RDM |
| FG 1 2 | Flow transducers | Same flow ranges as for VG 1 0 | Uncertainties as for VG 1 0 | Gasmeters | RDM |
| VG 1 0 | Volume of flowing gases | | | Unlimited volume [m ³] Unlimited mass [kg] | RDM |

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 |
|----------|--|--|-----------------------------|---|----------|
| | | 16 – 30000 m ³ /h | 0,16 % – 0,21% | Pressure range (4,9 – 6,1) MPa absolute pressure P_a | |
| | | 16 – 250 m ³ /h | 0,17 % – 0,28% | Pressure range (0,9 – 4,9) MPa absolute pressure P_a | |
| | | 251 – 30000 m ³ /h | 0,17% – 0,24% | Pressure range (0,9 – 4,9) MPa absolute pressure P_a | |
| | | 200 – 1,7·10 ⁴ kg/h | 0,20% – 0,30% | Pressure range (0,9 – 6,1) MPa absolute pressure P_a | |
| | | 1,7·10 ⁴ – 1,5·10 ⁵ kg/h | 0,20% – 0,26% | Pressure range (0,9 – 6,1) MPa absolute pressure P_a | |
| | | 1,5·10 ⁵ – 1,6·10 ⁶ kg/h | 0,18% – 0,25% | Pressure range (0,9 – 6,1) MPa absolute pressure P_a | |
| FG 1 2 | Flow transducers | < 1200 m/s | 0,12% | Speed of sound calibration of ultrasonic gas meter Comparison of speed of sound with equation of state at (0,1 – 70) MPa absolute pressure Natural gas, nitrogen, air | RDM |
| FG 1 0 | Gas Flow | | | | RDM |
| FG 1 1 | Gas flow rate | Same flow ranges as for VL 1 0 | Uncertainties as for VL 1 0 | Volume flow rate [m ³ /h] at actual conditions | RDM |
| FG 1 2 | Flow transducers | | | Gasmeters and DP devices | RDM |
| FL 1 0 | Flow of liquids | | | | RDM |

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| HCS code | Measured quantity, Instrument, Measure | Range | CMC ¹ | Remarks | Location |
|----------|--|--|--|---|----------|
| FL 1 1 | Liquid flow rate | Same flow ranges as for VL 1 0 | Uncertainties as for VL 1 0 | Volume flow rate [m ³ /h] at actual conditions Mass flow rate [kg/h] | RDM |
| FL 1 2 | Flow transducers | Same flow ranges as for VL 1 0 | Uncertainties as for VL 1 0 | Liquid flowmeters and DP devices | RDM |
| VL 1 0 | Volume of flowing liquids | | | Unlimited volume [m ³] Unlimited mass [kg] | RDM |
| | | 10 – 1200 m ³ /h 8,5·10 ³ – 840·10 ³ kg/h | 0,02 % piston prover 0,06 % master meter 0,04 % piston prover 0,07 % master meter | Liquids 1 - 600 mm ² /s kinematic viscosity Maximum back pressure 1 MPa gauge | RDM |
| | | 30 – 5000 m ³ /h 70 – 5000 m ³ /h 25,5·10 ³ – 3500·10 ³ kg/h 59,5·10 ³ – 3500·10 ³ kg/h | 0,02 % piston prover 0,06 % master meter 0,04 % piston prover 0,07 % master meter | Liquids 1 - 600 mm ² /s kinematic viscosity Maximum back pressure 1 MPa gauge | RDM |