

Annex to declaration of accreditation (scope of accreditation)  
 Normative document: EN ISO/IEC 17025:2017  
 Registration number: **K 153**

of **Emerson Process Management Flow B.V.**  
**Part of Measurement Solutions**

This annex is valid from: **18-12-2025 to 01-11-2029**

Replaces annex dated: **10-07-2024**

**Location(s) where activities are performed under accreditation**

**Head Office**

Neonstraat 1  
 6718 WX  
 Ede  
 The Netherlands

Location	Abbreviation/ location code
Neonstraat 1 6718 WX Ede The Netherlands	EDE

HCS code	Measured quantity, Instrument, Measure	Range	CMC <sup>1</sup>	Remarks	Location
DV	Density and viscosity				
DV.01.00	Density of liquids	(995.0 – 999.7) kg/m <sup>3</sup>	0.08 kg/m <sup>3</sup>	Comparison method, within SSF1B, SSF2A and SSF3A water	EDE
FL	Flow of liquids				
FL.01	Flow rate				
FL.01.01	Mass Flow rate				EDE
	Flow Meters	(0.067 – 36) kg/min	0.030 %	SSF1B Gravimetric standard method, reference mass ≥ 0.27 kg water	

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

J.A.W.M. de Haas

<sup>1</sup> 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".

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HCS code	Measured quantity, Instrument, Measure	Range	CMC <sup>1</sup>	Remarks	Location
		(0.067 – 36) kg/min	0.017 %	SSF1B Gravimetric enhanced method, reference mass ≥ 0.7 kg water	
		(0.5 – 2 750) kg/min	0.030 %	SSF2A Gravimetric standard method, reference mass ≥ 8 kg water	
		(2.8 – 2 750) kg/min	0.017 %	SSF2A Gravimetric enhanced method, reference mass ≥ 17 kg water	
		(20 – 20 000) kg/min	0.030 %	SSF3A Gravimetric standard method, reference mass ≥ 400 kg water	
		(36 – 20 000) kg/min	0.017 %	SSF3A Gravimetric enhanced method, reference mass ≥ 850 kg water	
FL.01.02	Volume Flow rate				EDE
	Flow Meters	(0.067 – 36) l/min	0.031 %	SSF1B Gravimetric standard method, reference mass ≥ 0.27 kg, density correction applied water	
		(0.067 – 36) l/min	0.019 %	SSF1B Gravimetric enhanced method, reference mass ≥ 0.7 kg, density correction applied water	
		(0.5 – 2 750) l/min	0.031 %	SSF2A Gravimetric standard method, reference mass ≥ 8 kg, density correction applied water	

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HCS code	Measured quantity, Instrument, Measure	Range	CMC <sup>1</sup>	Remarks	Location
		(2.8 – 2 750) l/min	0.019 %	SSF2A Gravimetric enhanced method, reference mass ≥ 17 kg, density correction applied water	
		(20 – 20 000) l/min	0.031 %	SSF3A Gravimetric standard method, reference mass ≥ 400 kg, density correction applied water	
		(36 – 20 000) l/min	0.019 %	SSF3A Gravimetric enhanced method, reference mass ≥ 850 kg, density correction applied water	

Remarks:

Flow meter density, mass and volumetric measurements always calibrated simultaneously.

Comparison method; The average flow meter density is compared with the average water density at stable flowing conditions. The average water density is calculated using the IAPWS Industrial Formulation 1997 for the Thermodynamic Properties of Water and Steam.

Gravimetric standard method; Calibration by comparison to a scale (static start/stop weighing method). As described in ISO 10790:2015(E) "Measurement of fluid flow in closed conduits - Guidance to the selection, installation and use of Coriolis meters (mass flow, density and volume flow measurements)", Annex A "Calibration techniques". This method utilizes totalized mass through flow meter pulse counting, minimum batch times, minimum batch sizes and stacks batches on the scale to maximum load, to achieve a CMC of 0.030 % on mass.

Gravimetric enhanced method; Calibration by comparison to a scale (static start/stop weighing method). As described in ISO 10790:2015(E) "Measurement of fluid flow in closed conduits - Guidance to the selection, installation and use of Coriolis meters (mass flow, density and volume flow measurements)", Annex A "Calibration techniques". This method utilizes totalized mass through flow meter pulse counting, increased minimum batch time, increased batch size, and drains after every batch, to achieve a CMC of 0.017 % on mass.