

Schedule of Accreditation



Organisation Name	Flow Meter Systems Ireland Ltd
Trading As	Flowmeter Systems (Irl) Limited
INAB Reg No	77C
Contact Name	Sinead Ferris
Address	IDA Business & Technology Park, Mallow, Cork, P51 CC62
Contact Phone No	02250111
Email	sinead.ferris@flowmeter.ie
Website	http://www.flowmeter.ie
Accreditation Standard	EN ISO/IEC 17025 C
Standard Version	2017
Date of award of accreditation	11/12/1996
Scope Classification	Metrology
Services available to the public ¹	Yes

¹ Refer to document on interpreting INAB Scopes of Accreditation

Sites from which accredited services are delivered		
(the detail of the accredited services delivered at each site are on the Scope of Accreditation)		
	Name	Address
1	Head Office	IDA Industrial Estate, Quartertown, Mallow, Cork, P51 CC62

Scope of Accreditation

Head Office

Metrology

Category: A

Metrology field - Calibrated Device Type	Measured quantity	Calibration range	Expanded Measurement Uncertainty	Std. ref/SOP	Products	Remarks
105 Flow - .04 Gas meters	Flow Rate (Gas Mass Meters)	5 ml/min to 500 ml/min 50 ml/min to 5 l/min 1 l/min to 100 l/min 6 l/min to 1500 l/min	0.43%	QT008 Calibration of Mass Flowmeters	Gas Mass Meters	
			0.35%			
	Flow Rate (Gas Volume Meters)		0.47%	QT008 Calibration of Volume Flowmeters	Gas Volume Meters	
			0.57%			
	Flow Rate Gas (Mass Meters)	0.0005 l/min to 0.05 l/min	0.43%	QT008 Calibration of Gas Mass Meters	Mass Flowmeters	
	Flow Rate Gas (Volume Meters)	0.0005/min to 0.05 l/min	0.52%	QT008 Calibration of Gas Volume Meters	Volume Meters	
105 Flow - .11 Liquid meters	Flow Rate (Liquid Flowmeters)	0.1 l/sec to 30 l/sec	0.13%	QT002 Calibration of Flowmeter (Volume) Balance Test Line 1500 Kg.	Liquid Flowmeters	
		0.2 l/min to 50 l/min	0.1%	QT005 Calibration of Flowmeters (Volume). Balance	Liquid Flowmeters	Standing Start & Stop

				Test Line 150Kg. Standing Start & Stop		
			0.13%	QT005 Calibration of Flowmeters (Volume). Balance Test Line 150Kg. Flying Start & Stop, Flowrate Indicator.	Liquid Flowmeters	Flying Start & Stop, Flowrate Indicator.
	Flow Rate (Mass Flowmeters)	0.1 kg/sec to 30 kg/sec	0.1%	QT002 Calibration of Flowmeter (Mass). Balance Test Line 1500 Kg.	Mass Flowmeters	
		0.2 kg/min to 50 kg/min	0.10%	QT005 Calibration of Flowmeters (Mass). Balance Test Line 150 Kg. Standing Start & Stop	Mass Flowmeters	Standing Start & Stop
			0.13%	QT005 Calibration of Flowmeters (Mass). Balance Test Line 150 Kg. Flying Start & Stop, Flowrate Indicator.	Mass Flowmeters	Flying Start & Stop, Flowrate Indicator.

** Notes:*

1. All calibrations must be carried out in accordance with procedures agreed by INAB.
2. In accordance with INAB policy, uncertainties are calculated for an estimated confidence level of not less than 95%
3. Volume calibration can be undertaken using Water or Milk as the Calibration Medium.
4. Mass calibration can be undertaken using any suitable liquid.
5. Calibration and Measurement Capability Expressed as an Uncertainty (\pm) to be reported in compliance with EA-4/02 "Expression of the Uncertainty of Measurement in calibration".
6. For meters calibrated using a mA output, uncertainty to be added with 0.1%
7. Excluding ultrasonic portable "clamp on" flow measuring devices

For Calibration Laboratories, ISO 17025

Calibration and Measurement Capability (CMC) is expressed in terms of the following parameters:

- Measurand or reference material
- Calibration or measurement method or procedure and type of instrument or material calibrated/measured

- *Measurement range and additional parameters where applicable*

- *Measurement uncertainty.*

Measurement uncertainty shall be reported in compliance with EA 4/02 "Evaluation of the Uncertainty of Measurement in Calibration".

In accordance with INAB policy, uncertainties are calculated for an estimated confidence level of not less than 95%.

Metrology field - Calibrated Device Type	Measured quantity	Calibration range	Expanded Measurement Uncertainty	Std. ref/SOP	Products	Remarks
105 Flow - .04 Gas meters	Flow Rate (Gas Mass Meters)	5 ml/min to 500 ml/min 50 ml/min to 5 l/min 1 l/min to 100 l/min 6 l/min to 1500 l/min	0.43% 0.35% 0.47% 0.57%	QT008 Calibration of Mass Flowmeter	Gas Mass Meters	
	Flow Rate (Gas Volume Meters)	5 ml/min to 500 ml/min 50 ml/min to 5 l/min 1 l/min to 100 l/min 6 l/min to 1500 l/min	0.52% 0.52% 0.59% 0.75%	QT008 Calibration of Volume Flowmeters	Gas Volume Meters	
	Flow Rate Gas (Mass Meters)	0.0005 l/min to 0.05 l/min	0.43%	QT008 Calibration of Gas Mass Meters	Mass Meters	
	Flow Rate Gas (Volume Meters)		0.52%	QT008 Calibration of Gas Volume Meters	Volume Meters	
105 Flow - .11 Liquid meters	Flow Rate (Liquid Flowmeters)	0.003 l/sec to 16.7 l/sec	0.15%	QT003/QT004 using mobile Test Rig (Volume)	Liquid Flowmeters	
	Flow Rate (Mass Flowmeters)	0.003 kg/sec to 16.7 kg/sec	0.15%	QT003/QT004 using mobile test rig (mass)	Mass Flowmeters	

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- Calibration or measurement method or procedure and type of instrument or material calibrated/measured*
- Measurement range and additional parameters where applicable*
- Measurement uncertainty.*

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In accordance with INAB policy, uncertainties are calculated for an estimated confidence level of not less than 95%.