

Pressure

Calibration and Measurement Capability (CMC)

Calibration or Measurement Service			Measurand Level or Range			Measurement Conditions/Independent Variable		Expanded Uncertainty					Reference Standard used in calibration		Service Identifier
Quantity/ Class	Instrument or Artifact	Instrument Type or Method	Minimum value	Maximum value	Units	Parameter	Specifications	Value	Units	Coverage Factor	Level of Confidence	Is the expanded uncertainty a relative one?	Standard	Source of traceability	
Absolute pressure gas medium	Pressure measuring device, Pressure gauge	Direct comparison	3.0	8.0	kPa	Temperature	(18 to 22)°C	(7.0E-05p+0.70), p pressure in Pa	Pa	2	95%	No	Pressure balance	PTB-INM	INM-L04-01
Absolute pressure gas medium	Pressure measuring devices, Pressure gauge	Direct comparison	8.0	350	kPa	Temperature	(18 to 22)°C	(2.5E-05p+0.55), p pressure in Pa	Pa	2	95%	No	Pressure balance	PTB	INM-L04-02
Absolute pressure gas medium	Pressure measuring devices, Pressure gauge	Direct comparison	0.35	1.75	Mpa	Temperature	(18 to 22)°C	(2.8E-05p+1.0), p pressure in Pa	Pa	2	95%	No	Pressure balance	PTB	INM-L04-03
Gauge pressure gas medium	Pressure measuring devices, Pressure gauge	Direct comparison	1.75	7.0	MPa	Temperature	(18 to 22)°C	(4.1E-05p+5.2), p pressure in Pa	Pa	2	95%	No	Pressure balance	PTB	INM-L04-04
Gauge pressure gas medium	Pressure measuring devices, Pressure gauge	Direct comparison	-100.0	-1.5	kPa	Temperature	(18 to 22)°C	(1.1E-04p+1.80), p pressure in Pa	Pa	2	95%	No	Pressure balance	PTB	INM-L04-05
Gauge pressure gas medium	Pressure measuring devices, Pressure Balances, Pressure gauge	Direct comparison, Crossfloat	1.5	8.0	kPa	Temperature	(18 to 22)°C	(7.0E-05p+0.70), p pressure in Pa	Pa	2	95%	No	Pressure balance	INM-PTB	INM-L04-06
Gauge pressure gas medium	Pressure measuring devices, Pressure Balances, Pressure gauge	Direct comparison, Crossfloat	8.0	350	kPa	Temperature	(18 to 22)°C	(2.5E-05p+0.55), p pressure in Pa	Pa	2	95%	No	Pressure balance	PTB	INM-L04-07
Gauge pressure gas medium	Pressure measuring devices, Pressure Balances, Pressure gauge	Direct comparison, Crossfloat	0.35	1.75	Mpa	Temperature	(18 to 22)°C	(2.8E-05p+1.0), p pressure in Pa	Pa	2	95%	No	Pressure balance	PTB	INM-L04-08

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Quantity/ Class	Instrument or Artifact	Instrument Type or Method	Minimum value	Maximum value	Units	Parameter	Specifications	Value	Units	Coverage Factor	Level of Confidence	Is the expanded uncertainty a relative one?	Standard	Source of traceability	
Gauge pressure gas medium	Pressure measuring devices, Pressure Balances, Pressure gauge	Direct comparison, Crossfloat	1.75	7.0	MPa	Temperature	(18 to 22)°C	(4.1E-05p+5.2), p pressure in Pa	Pa	2	95%	No	Pressure balance	PTB	INM-L04-09
Gauge pressure liquid medium	Pressure measuring devices, Pressure Balances, Pressure gauge	Direct comparison, Crossfloat	0.1	2	MPa	Temperature	(18 to 22)°C	(2.7E-05p+25), p pressure in Pa	Pa	2	95%	No	Pressure balance	INM-PTB	INM-L04-10
Gauge pressure liquid medium	Pressure measuring devices, Pressure Balances, Pressure gauge	Direct comparison, Crossfloat	2	50	MPa	Temperature	(18 to 22)°C	(2.0E-05p+35), p pressure in Pa	Pa	2	95%	No	Pressure balance	PTB	INM-L04-11
Gauge pressure liquid medium	Pressure measuring devices, Pressure Balances, Pressure gauge	Direct comparison, Crossfloat	50	200	MPa	Temperature	(18 to 22)°C	(3.0E-05p+40), p pressure in Pa	Pa	2	95%	No	Pressure balance	PTB	INM-L04-12
Gauge pressure liquid medium	Pressure measuring devices, Pressure Balances, Pressure gauge	Direct comparison, Crossfloat	200	500	MPa	Temperature	(18 to 22)°C	(6.0E-05p+50), p pressure in Pa	Pa	2	95%	No	Pressure balance	PTB	INM-L04-13

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