

Certificate of Calibration Fluke Park Laboratory

Description:	PRESSURE MEASUREMENT MODULE	Certificate Number:	1500237958
Manufacturer:	FLUKE CALIBRATION	Date of Calibration:	04 May 2018
Model:	BRM600-BA100K	Date Due:	
Serial Number:	4227032	Temperature:	20.0 to 26.0 °C
Status:	AS-LEFT	Relative Humidity:	10 to 70 %RH
		Pressure:	95 to 103 kPa
Calibration:	FULL	Issue Date:	04 May 2018
Procedure:	FLUKE PM SERIES PRESSURE MODULE CALIBRATION : 20180317		
Customer:	VIDITEC SA BUENOS AIRES, AR	RMA/SO Number:	31484656
PO Number:	IRV NO 1763		

This calibration is traceable to the SI through recognized national measurement institutes (NIST, PTB, NPL, NIM, NRC, etc.), radiometric techniques, or natural physical constants and is in compliance with ISO/IEC 17025:2005 and ANSI/NCSL Z540.1. The calibration has been completed in accordance with the Fluke Corporate Quality System document QSD 111.0. Calibration certificates without identification of the authorizing person are not valid. This certificate applies to only the item identified and shall not be reproduced other than in full, without the specific written approval by Fluke Corporation.

This calibration certificate may contain data that is not covered by the Scope of Accreditation. The unaccredited test points, where applicable, are indicated by an asterisk (*), or confined to clearly marked sections. This certificate shall not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

Measurement uncertainties at the time of test are given where applicable. They are calculated in accordance with the method described in the ISO Guide to the Expression of Uncertainty in Measurement. The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k such that the coverage probability corresponds to approximately 95 %.

Comments:



FLUKE[®]
 Calibration

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877-355-3225 www.flukecal.com

Cert: 1500237958
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Approved Signatory

Tim Brady
 Authorized Signatory

Standards Used

Description	Serial Number	Due-Date
DH INSTRUMENTS PC-7100/7600-20 KPA/KG PISTON-CYLINDER	1326	06-Jun-2018
FLUKE CALIBRATION MS-AMH-38 MASS SET	2169	24-Jul-2018
DH INSTRUMENTS PG7601 PISTON GAUGE BASE	328	16-Oct-2018

Quality Manuals

This calibration has been completed in accordance with:

The Fluke Corporate Quality Manual, QSD 111.00, Revision 121, Dated July, 2017 and/or

The Fluke 17025 Quality Manual, QSD 111.41, Revision 005, Dated Sept. 2014

Test Description

This **Fluke Calibration BRM600-BA100K Pressure Measurement Module** was inspected on receipt and judged to be suitable for calibration.

At least four hours were allowed for the **BRM600-BA100K** to thermally stabilize in the calibration laboratory before commencing any test. The pressure transducer was pressurized from its minimum to maximum pressure to exercise the pressure sensing element and assists in identifying leaks before data is collected.

Pressure comparisons were performed in kPa throughout the range at specified points with Fluke Calibration working standards. Each applied and test result listed is derived from a multi-measurement data average, only after the pressure is considered to be stable and at equilibrium. Unless otherwise indicated, the horizontal plane of reference for pressure measurement is center of the test connection.

In the data pages that follow: "**Applied**" is the pressure defined by the reference at equilibrium. "**Test Result**" is the pressure indicated by the **BRM600-BA100K**. "**Error**" is the absolute error in reported pressure units calculated as (Test Result – Applied). "**Measurement Uncertainty**" is the expanded uncertainty of measurement that corresponds to an approximate coverage probability of 95% and "**Specification**" is the applicable tolerance applied to the data type.

Specifications:

The BRM600-BA100K Pressure Measurement Module has an uncertainty no greater than:

Model	Range	Specification ¹
BRM600-BA100K	70 kPa to 110 kPa	±(0.01% of reading)

Adjustment Tolerance²: ±(0.0089% of reading)

Notes:

1. One year specification at a 95% coverage probability.
2. Adjustment tolerance is the As Left specification.

If manufacturer's specifications are listed, measured values greater than the manufacturer's specification limits are indicated by 'MV>Spec'.

Applied	Test Result	Error	Measurement Uncertainty	Specification
AS LEFT DATA				
ABSOLUTE PRESSURE VERIFICATION				
BRM600-BA100K ORIENTATION: HORIZONTAL				
Reported Unit: kPa				
Conversion Factor: 1 kPa = 1000 Pa				
70.39268 kPa	70.3929 kPa	0.00022 kPa	1.4E+000 Pa	0.0063 kPa
80.43175 kPa	80.4298 kPa	-0.00195 kPa	1.6E+000 Pa	0.0072 kPa
90.24409 kPa	90.2410 kPa	-0.00309 kPa	1.7E+000 Pa	0.0080 kPa
100.27276 kPa	100.2711 kPa	-0.00166 kPa	1.9E+000 Pa	0.0089 kPa
110.29677 kPa	110.2968 kPa	0.00003 kPa	2.0E+000 Pa	0.0098 kPa
100.27276 kPa	100.2738 kPa	0.00104 kPa	1.9E+000 Pa	0.0089 kPa
90.24407 kPa	90.2465 kPa	0.00243 kPa	1.7E+000 Pa	0.0080 kPa
80.43170 kPa	80.4330 kPa	0.00130 kPa	1.6E+000 Pa	0.0072 kPa
70.39262 kPa	70.3929 kPa	0.00028 kPa	1.4E+000 Pa	0.0063 kPa

AS LEFT COEFFICIENTS:
 : -0.001600 psi C1: 1.000080 ZOFFSET: 0.0 psi
 Medium used: Nitrogen
 Date Tested: 20180504

Reported Unit: psi
 Conversion Factor: 1 psi = 6894.759 Pa

10.209592 psi	10.20962 psi	0.000032 psi	2.1E-004 psi	0.00091 psi
11.665636 psi	11.66535 psi	-0.000283 psi	2.3E-004 psi	0.00104 psi
13.088795 psi	13.08835 psi	-0.000448 psi	2.5E-004 psi	0.00116 psi
14.543330 psi	14.54309 psi	-0.000241 psi	2.7E-004 psi	0.00129 psi
15.997190 psi	15.99719 psi	0.000004 psi	2.9E-004 psi	0.00142 psi
14.543330 psi	14.54348 psi	0.000151 psi	2.7E-004 psi	0.00129 psi
13.088792 psi	13.08914 psi	0.000352 psi	2.5E-004 psi	0.00116 psi
11.665629 psi	11.66582 psi	0.000189 psi	2.3E-004 psi	0.00104 psi
10.209584 psi	10.20962 psi	0.000041 psi	2.1E-004 psi	0.00091 psi

Reported Unit: bar
 Conversion Factor: 1 bar = 1E+05 Pa

7039268 bar	0.703929 bar	0.0000022 bar	1.4E-005 bar	0.000063 bar
8043175 bar	0.804298 bar	-0.0000195 bar	1.6E-005 bar	0.000072 bar
9024409 bar	0.902410 bar	-0.0000309 bar	1.7E-005 bar	0.000080 bar
10027276 bar	1.002711 bar	-0.0000166 bar	1.9E-005 bar	0.000089 bar
11029677 bar	1.102968 bar	0.0000003 bar	2.0E-005 bar	0.000098 bar
10027276 bar	1.002738 bar	0.0000104 bar	1.9E-005 bar	0.000089 bar
9024407 bar	0.902465 bar	0.0000243 bar	1.7E-005 bar	0.000080 bar
8043170 bar	0.804330 bar	0.0000130 bar	1.6E-005 bar	0.000072 bar
7039262 bar	0.703929 bar	0.0000028 bar	1.4E-005 bar	0.000063 bar

型号或产品系列名称:

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下表列出了本产品的零部件名称，以及包含的超过中国标准 GB/T 26572-2011 规定限量的有毒、有害物质。

本产品所含的有害物质或元素

零部件名称 Part Name	有毒和有害物质或元素					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr+6)	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
硬质/软质手提箱 Hard/Soft Carry Case	○	○	○	○	○	○
塑料外壳 Plastic Enclosure	○	○	○	○	○	○
其它塑料零件 Other Plastic Parts	○	○	○	○	○	○
防护套 Holster	○	○	○	○	○	○
按键 Keypad	○	○	○	○	○	○
显示组件 Display Assembly	○	○	○	○	○	○
变压器和电源适配器 Transformers & Power Adaptors	○	○	○	○	○	○
电路板组件 Printed Circuit Assembly	○	○	○	○	○	○
电线和电缆 Wire & Cable	X	○	○	○	○	○
金属(底座, 面板, 分总成, 罩壳等) Metal (chassis, panels, subassemblies, shields)	○	○	○	○	○	○
紧固件 Fasteners	○	○	○	○	○	○
电池(单电池, 电池组) Battery (cells, packs)	○	○	○	○	○	○
输入/输出接口器件 I/O Interface Devices	○	○	○	○	○	○
组合驱动单元 Modular Drive Units	○	○	○	○	○	○
传感器(探测器) Sensor (detector)	X	○	○	○	○	○
光学器件 Optics	○	○	○	○	○	○
其它附件(电线电缆, 探针, 连接器) Other Accessories (cables, probes, connectors)	○	○	○	○	○	○
液体处理装置 Fluid Handling Components	○	○	○	○	○	○

X = 在该零部件至少一种均质材料中, 该有毒有害物质的含量超过了 GB/T 26572-2011 规定的限量要求。
X = Toxic and hazardous substances in at least one homogeneous material of the part exceeds the concentration limit requirement described in GB/T 26572-2011.
○ = 在该零部件至少一种均质材料中, 该有毒有害物质的含量或者符合 GB/T 26572-2011 规定的限量要求, 或者表示产品中未使用此零件。
○ = Toxic and hazardous substances in all the homogeneous materials of the part is either below the concentration limit requirement described in GB/T 26572-2011 or is not applicable because the part is not used.
当非可充电电池的电量用完时, 请取出或更换电池。
Remove or replace primary (non-rechargeable) batteries when exhausted.



表示产品含有中国 RoHS 禁止的物质; 数字表示所涉及产品和零件的“环保使用期限”。

Product contains China RoHS banned substances; the number indicates "Environmentally Friendly Use Period" (EFUP) for all enclosed products and their parts.



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Product or parts contains no China RoHS banned substances.