Gesa Termómetros, S.L.
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CALIBRATION CERTIFICATE

Gesa M**-MA

Certificate Nr G***/201*

CUSTOMER IDENTIFICATION:

Name:	Company 2nd Street
Person in charge:	John Smith
Reference:	order ***
Date of order:	1th January 201*

IDENTIFICATION OF THE INSTRUMENT TO BE TESTED:

Description:	Pressure gauge Bourdon type. Radial connection. Inner elements in Stainless Steel AISI 316.
Pressure range:	0+25 bar
Subdivision:	0,5 bar
Construction:	Case and ring in stainless steel AISI 304 Ø100mm. Threaded connection ½" BSP according to UNE-EN 10226-1 Glycerine filled Class 1,0 according to UNE-EN 837-1 Degree of protection IP 65 according to EN 60529 / IEC 529 Dimensions and tolerances according to UNE-EN 22768-1
Inner reference:	R936

REFERENCE INSTRUMENT

Description:	Digital pressure gauge with radial connection. Class 0,05 according to UNE-EN 837-1.
ENAC certificate nr.	3913
Uncertainty:	U = 8,8 mbar
Inner reference	GE-19

The expanded uncertainty U has been obtained by multiplying the standard uncertainty uc by a coverage factor k=2 according to CEA-ENAC-LC/02 Rev.1 January 98)

Traceability:	To international patterns referred to the "Centro Español de Metrología" – C.E.M. Madrid.

TEST METHODOLOGY

Procedure:	Pressure driven by a manual pump. Different pressure points are fixed on the measuring instrument (inverse calibration) in two series, one increasing and one decreasing according to the inner procedure Gesa PC/05/2011
Fluid:	Water at ambient temperature.

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TEST RESULTS

Point	Instrument (bar)	Tester (with corrections)					Average diferences (Instrument-tester) (bar)	Expanded Uncertainty (K=2) (bar)
		Upwards 1 (bar)	Downwards 1 (bar)	Upwards 2 (bar)	Downwards 2 (bar)	Average (bar)		
1	5	4,910	4,910	4,910	4,910	4,910	0,090	0,10
2	10	9,906	9,906	9,906	9,906	9,906	0,094	0,11
3	16	15,808	15,808	15,808	15,808	15,808	0,192	0,22
4	18	17,838	17,838	17,838	17,838	17,838	0,162	0,19
5	20	19,784	19,784	19,784	19,784	19,784	0,217	0,25
6	22	21,764	21,764	21,764	21,764	21,764	0,236	0,27
7	25	24,757	24,757	24,757	24,757	24,757	0,243	0,28

The expanded uncertainty U has been obtained by multiplying the standard uncertainty u_c by a coverage factor k=2 . The standard uncertainty u_c has been obtained according to document EAL-R2.

Test conditions:
Room temperature: 22 ± 2ºC
Atmospheric pressure: 1022 mbar
Relative humidity: 75± 10 %

Test date: 28 February 2012
Validity: 27 February 2013

Calibration service