

Deutscher Kalibrierdienst (DKD)

Accreditation Body

represented in

Deutscher AkkreditierungsRat



Accreditation

The Accreditation Body of **Deutscher Kalibrierdienst** hereby accredits  
National Mass Laboratory of Superintendencia de Industria y Comercio

Avenida Carrera 50 N° 26-55, Int. 2

Bogota D.C.

Columbia

according to DIN EN ISO/IEC 17025: 2005 for calibrations in the field / fields:

mass, Weighing instruments

Part of the certificate is: Annex 02 (2 pages), 2007-10-15

DAR registration number: DKD-K-47301

DKD accredited since: 2007-08-23

Braunschweig, 2007-10-15

Head of Accreditation Body  
by proxy

Dipl.-Ing. Michael Schaller



The accreditation is granted on the basis of an assessment and the contract concluded with the Accreditation Body of Deutscher Kalibrierdienst concerning the accreditation of a calibration laboratory according to rules and procedures of Deutscher Kalibrierdienst pursuant to the Standards DIN EN ISO/IEC 17025: 2005 and DIN EN ISO/IEC 17011.

The calibration laboratory is authorized to issue DKD calibration certificates and to use the DKD logo.

Details of the scope of accreditation (measuring instruments, measurands, ranges of measurement, uncertainties of measurement) are specified in the annex. The documents submitted form an integral part of the accreditation. Modifications must be made in writing.

The accreditation is granted with the reservation that it can be withdrawn at any time if the defined conditions are no longer met. The validity and the current scope of accreditation are documented on the web pages of Deutscher Kalibrierdienst (<http://www.dkd.eu>).

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Accreditation certificates and annexes to them may be distributed only without modifications. Extracts may be published only with the permission of the Accreditation Body of Deutscher Kalibrierdienst.

The impression that products and services of the holder, that are not covered by the accreditation, are also subject to the calibration laboratory's control has to be avoided. Should this impression nevertheless be given, the Accreditation Body of Deutscher Kalibrierdienst shall be authorized to demand modifications.

If reference is made to the accreditation as a calibration laboratory, the fields covered by the accreditation must be explicitly specified. In case of doubt, the Accreditation Body of Deutscher Kalibrierdienst should be contacted before such reference is made.

### Annex 02

of 2007-10-15 to the accreditation certificate of the calibration laboratory **DKD-K- 47301**

Registration number:

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at

National Mass Laboratory of Superintendencia de Industria y Comercio  
Avenida Carrera 50 N° 26-55, Int. 2  
Bogotá D. C.  
Colombia  
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E-mail: laboratoriodemasa@correo.sic.gov.co ; abermudez@correo.sic.gov.co

### Measured quantities:

Conventional mass /  
Mass  
Weighing instruments

Head: Mr. Jorge Daniel Garcia Benavides  
Deputy: Mr. Alvaro Bermúdez Coronel

Accredited since: 2007-08-23

### Permanent Laboratory

Measured quantity / Calibration item	Range	Measurement conditions / procedure	Best measurement capability <sup>1)</sup>	Remarks
Conventional mass/ Mass	1 mg		0,003 mg	for weight pieces according to OIML R 111, Class E <sub>2</sub>
	2 mg		0,003 mg	
	5 mg		0,003 mg	
	10 mg		0,003 mg	
	20 mg		0,003 mg	
	50 mg		0,004 mg	
	100 mg		0,005 mg	
	200 mg		0,006 mg	
	500 mg		0,008 mg	
	1 g		0,010 mg	
	2 g		0,012 mg	
	5 g		0,016 mg	
	10 g		0,020 mg	
	20 g		0,025 mg	
	50 g		0,030 mg	
	100 g		0,05 mg	
	200 g		0,10 mg	
	500 g		0,25 mg	
	1 kg		0,5 mg	
	2 kg		3 mg	for weight pieces according to OIML R 111, Class F <sub>1</sub>
	5 kg		8 mg	
	10 kg		16 mg	
	20 kg		30 mg	
	50 kg		250 mg	for weight pieces according to OIML R 111, Class F <sub>2</sub>

<sup>1)</sup>The best measurement capabilities are stated according to DKD-3 (EA-4/02). These are expanded uncertainties of measurement with a coverage probability of 95% and have a coverage factor of  $k = 2$  unless stated otherwise. Uncertainties without unit are relative uncertainties referring to the measurement value unless stated otherwise.

## On-site calibration

Measured quantity / Calibration item	Range	Measurement conditions / procedure	Best measurement capability <sup>1)</sup>	Remarks
Balances	Up to 410 g	EURAMET/cg-18/v.01 (previously EA 10/18)	$2 \cdot 10^{-6}$	The value of uncertainty is related to the maximum load applied to the balance.

The best measurement capabilities are stated according to DKD-3 (EA-4/02). These are expanded uncertainties of measurement with a coverage probability of 95% and have a coverage factor of  $k = 2$  unless stated otherwise. Uncertainties without unit are relative uncertainties referring to the measurement value unless stated otherwise.