PHOENIX CALIBRATION
ACCREDITED Cert # 3022.01
809 563-0457 · 786 866-5606
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Calle D, Esquina C. El Diamante
No. 18, Zona Ind. de Herrera
Santo Domingo, Rep.Dom. 11001
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# CERTIFICATE OF CALIBRATION

CERT. NO.: **C319402**

## GENERAL INFORMATION

| | |
|---|---|
| **Customer:** | Phoenix Calibration |
| **Contact:** | Bryan Ricart |
| **Service No.:** | 46336 |
| **Asset No.:** | 10951 |
| **Description:** | AS 82/220.X2 ANALYTICAL BALANCE |
| **Manufacturer:** | Radwag |
| **Model No.:** | AS 82/220.X2 Plus |
| **Serial No.:** | 716305 |
| **Range:** | See datasheets |
| **Location:** | N/D |

## CALIBRATION INFORMATION

| | |
|---|---|
| **Calibration Date:** | 11/30/2022 |
| **Next Due:** | 12/31/2022 |
| **Cal. Freq.:** | 1 Months |
| **AsFound Condition:** | In tolerance |
| **Calibration Results:** | Passed |
| **Calibration Location:** | MVD Lab |
| **Calibrated by:** | Darbet Quezada |
| **Environment:** | 67.46°F 55%RH 755.6mmHg |
| **Cal. Procedure:** | DR-WI-0126 |

This calibration is traceable to the International System of Units (SI), through National Metrology Institutes (NIST, PTB, NRC, NPL, etc.). This calibration conforms to the requirements of ISO/IEC 17025:2017. Results contained in this document relate only to the items tested or calibrated. The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, such that the confidence level approximates 95%. The customer is responsible for assigning the calibration frequency if needed, and it does not imply that the conformity of the equipment with the specifications is maintained. This certificate shall not be reproduced except in full and with the written consent of Phoenix Calibration. The statement of conformity is based on simple acceptance, whether the calibration result is within or outside the manufacturer's specification/acceptance limits, with the TUR expressed on the datasheet. It is the responsibility of the end user to determine if it is appropriate for your specific application. Pass: Results within limits. Fail: Results exceed limits

## REMARKS

Performed Routine Calibration/Certification. All tested parameters were found in Tolerance. TUR Double Check by F.Cordero.

## REFERENCE STANDARDS USED TO CALIBRATE EQUIPMENT

| ID Inst | Description | Serial No. | Cal. Date | Due Date |
|---|---|---|---|---|
| 10953 | Weight Set Class E1 1mg-200g | 4000030003 | 05/16/2022 | 05/31/2024 |

## REVISION COMMENT

## SIGNATURES

Calibrated by: **Darbet Quezada**

Date: 11/30/2022

Quality Approval: Estephanie Méndez

Date: 12/01/2022

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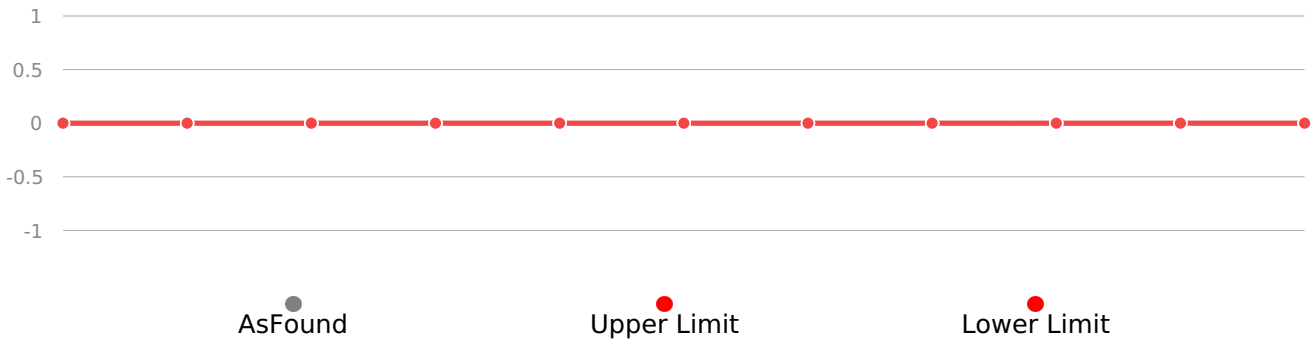
# DATASHEET

CERT. NO.: **C319402**

## Weight - Linearity Down

| Units | Max. Error(Tol.) | Nominal | Low Limit | HighLimit | AsFound | | Meas. Uncert. | TUR |
|---|---|---|---|---|---|---|---|---|
| g | 0.00005 | 0.0000000 | -0.00005 | 0.00005 | 0.00000 | ✓ | 1.1 | >10:1 |
| g | 0.00005 | 0.0049985 | 0.00495 | 0.00505 | 0.00500 | ✓ | 0.000028 | 1.9:1 |
| g | 0.00005 | 0.2000021 | 0.19995 | 0.20005 | 0.20001 | ✓ | 0.000028 | 1.9:1 |
| g | 0.00005 | 1.0000106 | 0.99996 | 1.00006 | 1.00002 | ✓ | 0.000028 | 1.9:1 |
| g | 0.00005 | 5.0000148 | 4.99996 | 5.00006 | 5.00002 | ✓ | 0.000028 | 1.9:1 |
| g | 0.00005 | 9.999991 | 9.99994 | 10.00004 | 10.00002 | ✓ | 1.1 | 2.1:1 |
| g | 0.00005 | 50.000034 | 49.99998 | 50.00008 | 50.00006 | ✓ | 0.000084 | 0.6:1 |
| g | 0.00005 | 80.000018 | 79.99997 | 80.00007 | 80.00006 | ✓ | 0.000084 | 0.6:1 |
| g | 0.0002 | 100.000037 | 99.9998 | 100.0002 | 100.0001 | ✓ | 0.00012 | 2.4:1 |
| g | 0.0002 | 150.000071 | 149.9999 | 150.0003 | 150.0002 | ✓ | 0.00012 | 2.4:1 |
| g | 0.0002 | 199.999956 | 199.9998 | 200.0002 | 199.9999 | ✓ | 0.00012 | 2.4:1 |

Accuracy Chart



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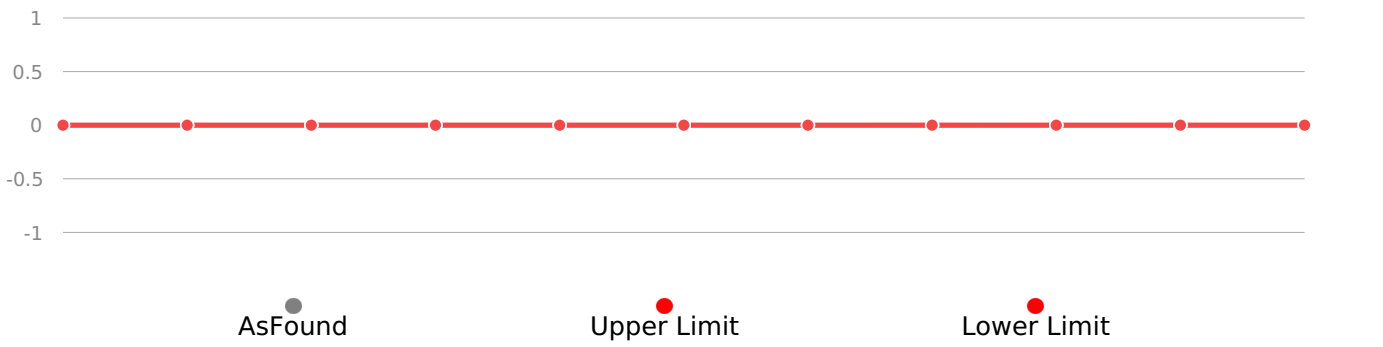
# DATASHEET

CERT. NO.: **C319402**

## Weight - Linearity Up

| Units | Max. Error(Tol.) | Nominal | Low Limit | HighLimit | AsFound | | Meas. Uncert. | TUR |
|---|---|---|---|---|---|---|---|---|
| g | 0.00005 | 0.0000000 | -0.00005 | 0.00005 | 0.00000 | ✓ | 1.1 | >10:1 |
| g | 0.00005 | 0.0049985 | 0.00495 | 0.00505 | 0.00500 | ✓ | 0.000028 | 1.9:1 |
| g | 0.00005 | 0.2000021 | 0.19995 | 0.20005 | 0.20000 | ✓ | 0.000028 | 1.9:1 |
| g | 0.00005 | 1.0000106 | 0.99996 | 1.00006 | 1.00001 | ✓ | 0.000028 | 1.9:1 |
| g | 0.00005 | 5.0000148 | 4.99996 | 5.00006 | 5.00005 | ✓ | 0.000028 | 1.9:1 |
| g | 0.00005 | 9.999991 | 9.99994 | 10.00004 | 10.00000 | ✓ | 1.1 | 2.1:1 |
| g | 0.00005 | 50.000034 | 49.99998 | 50.00008 | 50.00000 | ✓ | 0.000084 | 0.6:1 |
| g | 0.00005 | 80.000018 | 79.99997 | 80.00007 | 80.00007 | ✓ | 0.000084 | 0.6:1 |
| g | 0.0002 | 100.000037 | 99.9998 | 100.0002 | 100.0002 | ✓ | 0.00012 | 2.4:1 |
| g | 0.0002 | 150.000071 | 149.9999 | 150.0003 | 150.0003 | ✓ | 0.00012 | 2.4:1 |
| g | 0.0002 | 199.999956 | 199.9998 | 200.0002 | 199.9999 | ✓ | 0.00012 | 2.4:1 |

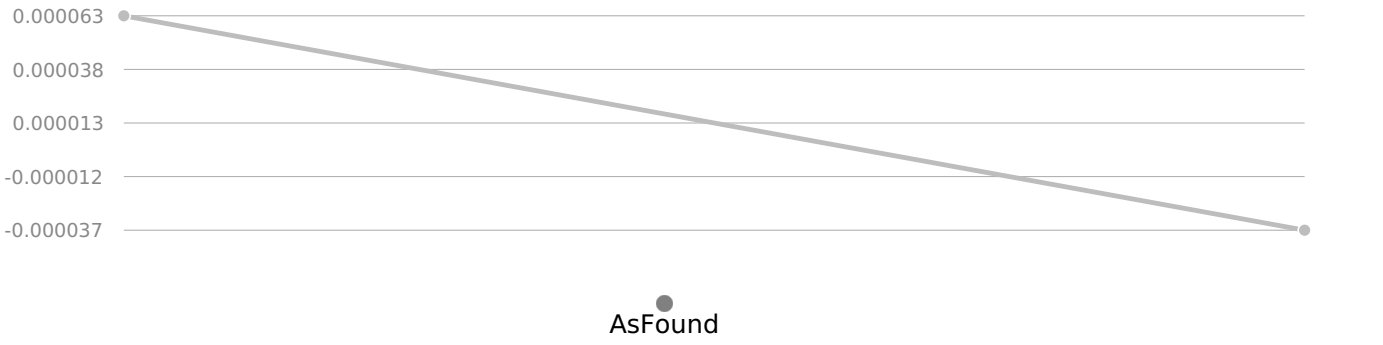
Accuracy Chart




## Weight - Eccentricity Center

| Units | Max. Error(Tol.) | Nominal | Low Limit | HighLimit | AsFound | Meas. Uncert. | TUR |
|---|---|---|---|---|---|---|---|
| g | N/A | 100.000037 | N/A | N/A | 100.00010 | ** | n/a |
| g | N/A | 100.000037 | N/A | N/A | 100.00000 | ** | n/a |

Accuracy Chart




## Weight - Eccentricity NorthEast

| Units | Max. Error(Tol.) | Nominal | Low Limit | HighLimit | AsFound | Meas. Uncert. | TUR |
|---|---|---|---|---|---|---|---|
| g | N/A | 100.000037 | N/A | N/A | 100.00000 | ** | n/a |

## Weight - Eccentricity NorthWest

| Units | Max. Error(Tol.) | Nominal | Low Limit | HighLimit | AsFound | Meas. Uncert. | TUR |
|---|---|---|---|---|---|---|---|
| g | N/A | 100.000037 | N/A | N/A | 100.00010 | ** | n/a |

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# DATASHEET

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## Weight - Eccentricity SouthEast

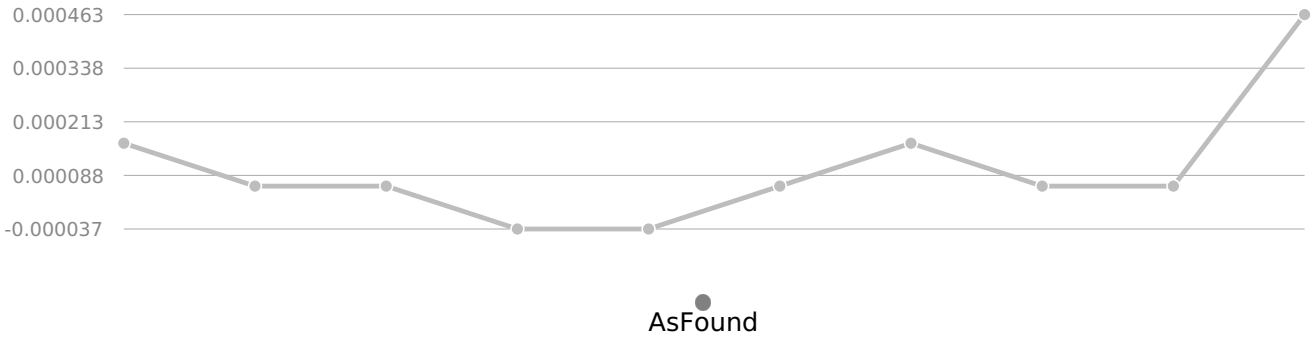
| Units | Max. Error(Tol.) | Nominal | Low Limit | HighLimit | AsFound | Meas. Uncert. | TUR |
|---|---|---|---|---|---|---|---|
| g | N/A | 100.000037 | N/A | N/A | 100.00010 | ** | n/a |

## Weight - Eccentricity SouthWest

| Units | Max. Error(Tol.) | Nominal | Low Limit | HighLimit | AsFound | Meas. Uncert. | TUR |
|---|---|---|---|---|---|---|---|
| g | N/A | 100.000037 | N/A | N/A | 100.00000 | ** | n/a |

## Weight - Repeatability

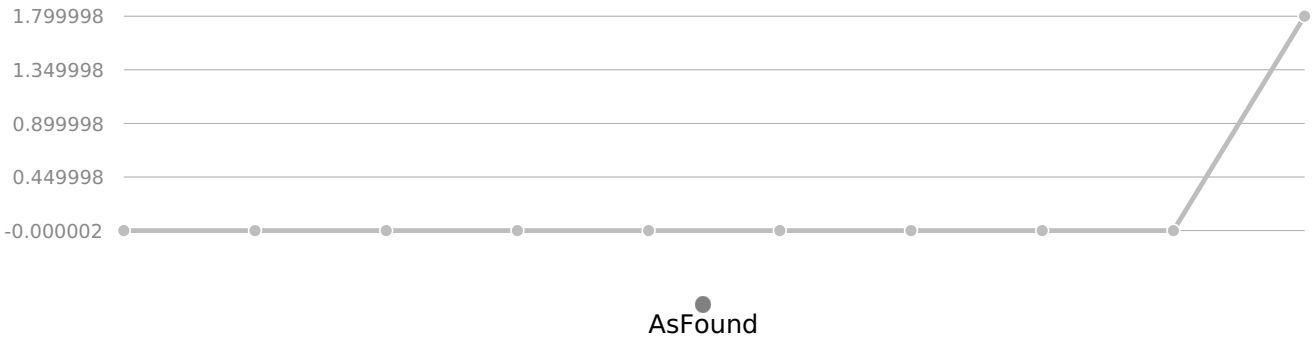
Accuracy Chart




Dev.Std: 0.000143

## Weight - Repeatability 2

Accuracy Chart




Dev.Std: 0.57

## Weight - g - - - 200mg StdDev

| Units | Max. Error(Tol.) | Nominal | Low Limit | HighLimit | AsFound | Meas. Uncert. | TUR |
|---|---|---|---|---|---|---|---|
| g | N/A | 0.0000000 | N/A | N/A | 0.5692086 | ** | n/a |

## Weight - g - - Excentricity

| Units | Max. Error(Tol.) | Nominal | Low Limit | HighLimit | AsFound | Meas. Uncert. | TUR |
|---|---|---|---|---|---|---|---|
| g | N/A | N/A | N/A | N/A | 0.00002886748 | ** | n/a |

## Weight - g - - - 100g StdDev

| Units | Max. Error(Tol.) | Nominal | Low Limit | HighLimit | AsFound | Meas. Uncert. | TUR |
|---|---|---|---|---|---|---|---|
| g | N/A | 0.000000 | N/A | N/A | 0.000142984 | ** | n/a |

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# DATASHEET

CERT. NO.: **C319402**

End of datasheet

(X) means that it was found out of tolerance when performing a routine calibration of the equipment.

(**) Represents Non ISO/IEC 17025 Accredited Values.