

# KROHNE

## CALIBRATION TEST CERTIFICATE

This calibration complies with ANSI/NCSL Z540-1-1994.

CUSTOMER: KROHNE DE MEXICO

INSTRUMENT TYPE: GS 8 B

CUSTOMER P.O.: KMX PO2020 9134

KAL #: 273023397

SERIAL NO.: U1427700040202

Date: 11/10/20

CALIBRATION REF. STD: KROHNE 10 OHM STANDARD RESISTOR, ASSET NO. 2338

NIST TRACEABLE expiration date: 7/13/21

Last calibration date: 7/13/20

TEST INSTRUMENTS: KEYSIGHT MODEL 34465A, ASSET NO. 2504

NIST TRACEABLE expiration date: 7/13/21

Last calibration date: 7/13/20

### CALIBRATION PROCEDURE:

The KROHNE GS 8 B Simulator is connected to a precision stable constant current source of approx. +/- 125 mAdc. The GS 8 B signal voltage is then measured at the constant current value for each rate switch position. The values are calculated to obtain the voltage difference (% absolute error) as referred to the KROHNE standard millivolt signal reference of each switch position. The collective uncertainty of the calibration process does not exceed 25% of the acceptable GS 8 B tolerance. (WI GS 8 B-03 GS 8 B Calibration)

AMBIENT TEMP. (C): 23.8

RELATIVE HUMIDITY (%): NA

THIS INSTRUMENT PASSED REQUIRED CALIBRATION SPECIFICATIONS

### RANGE READINGS:

The different range settings are coordinated with each switch position and are individually verified. The adjusted % error readings below indicate range linearity with respect to the KROHNE standard signal reference for each rate switch position. Automated test measurements are obtained using a calibrated Keysight MODEL 34465A DVM to obtain sufficient resolution. The voltage output is used to check all switch positions on the GS 8 B verifying that data error percentages meet calculated error band limits. For switch position "0" direct mVdc readings determine 0 (0 FV/Sec) setting compliance.

GS 8 B Rate Setting	Reference Voltage(Mvdc)	Compensated signal Voltage(Mvdc)	Calibration As Found / As Left Adjusted % Error	Error Limits
0 (0 FV/Sec)	0.000000	0.000070	0.000070	+/- 0.001 mVdc
A (0.5 FV/Sec)	0.128107	0.128239	0.103%	+/- 0.4 % Dev
B (1 FV/Sec)	0.256215	0.256209	-0.002%	+/- 0.4 % Dev
C (2 FV/Sec)	0.512430	0.512425	-0.001%	+/- 0.4 % Dev
D (5 FV/Sec)	1.281074	1.281401	0.026%	+/- 0.4 % Dev
E (10 FV/Sec)	2.562149	2.562592	0.017%	+/- 0.4 % Dev

J. Yun 11/10/20

Calibration Technician

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