

# Scope of Accreditation For Rogan Incorporated

400 Devils Glen Road  
P.O. Box 908  
Bettendorf, IA 52722  
Rick Rogan  
563-355-2647

In recognition of a successful assessment to ISO/IEC 17025:2005, accreditation is granted to **Rogan Incorporated** to perform the following Calibrations:

Accreditation granted through: **July 6, 2012**

## Calibration

### Mass – Scales and Balances

Calibration Parameter/Equipment <sup>1</sup>	Range	Calibration and Measurement Capability(+/-)	Remarks
Balances			Class I Weights in accordance with ASTM E617 and NIST Handbook 44 utilized for the calibration of the Weighing System
(0.1 µg Resolution)	(0 to 5) g	0.62 µg	
(100 µg Resolution)	(0 to 320) g	200 µg	
(1 mg Resolution)	(0 to 2200) g	0.0012 g	
(0.01 g Resolution)	(0 to 10 000) g	0.011 g	
(0.1 g Resolution)	(0 to 64 000) g	0.3 g	
Balances			Class II Weights in accordance with ASTM E617 and NIST Handbook 44 utilized for the calibration of the Weighing System
(0.01 g Resolution)	(0 to 10 000) g	0.019 g	
(0.02 g Resolution)	(0 to 20 000) g	0.039 g	
(0.1 g Resolution)	(0 to 32 000) g	0.053 g	
(0.5 g Resolution)	(0 to 50 000) g	0.194 g	
(1 g Resolution)	(0 to 150 000) g	0.4 g	
(2 g Resolution)	(0 to 300 000) g	6.7 g	
Scales			Class F Weights in accordance with NIST 105-1 and NIST Handbook 44 utilized for the calibration of the Weighing System
(0.0002 lb Resolution)	(0 to 2) lb	0.0002 lb	
(0.0005 lb Resolution)	(0 to 5) lb	0.0004 lb	
(0.001 lb Resolution)	(0 to 10) lb	0.0008 lb	
(0.002 lb Resolution)	(0 to 20) lb	0.001 lb	
(0.005 lb Resolution)	(0 to 50) lb	0.004 lb	

Calibration Parameter/Equipment <sup>1</sup>	Range	Calibration and Measurement Capability(+/-)	Remarks
(0.01 lb Resolution)	(0 to 132) lb	0.008 lb	Class F Weights in accordance with NIST 105-1 and NIST Handbook 44 utilized for the calibration of the Weighing System
(0.02 lb Resolution)	(0 to 200) lb	0.01 lb	
(0.05 lb Resolution)	(0 to 500) lb	0.03 lb	
(0.1 lb Resolution)	(0 to 1000) lb	0.07 lb	
(0.2 lb Resolution)	(0 to 2000) lb	0.1 lb	
(0.5 lb Resolution)	(0 to 5000) lb	0.3 lb	
(1 lb Resolution)	(0 to 10 000) lb	0.7 lb	
(2 lb Resolution)	(0 to 20 000) lb	1.6 lb	
(5 lb Resolution)	(0 to 50 000) lb	4 lb	
(10 lb Resolution)	(0 to 100 000) lb	8 lb	
(20 lb Resolution)	(0 to 200 000) lb	16 lb	
(50 lb Resolution)	(0 to 500 000) lb	40 lb	
(100 lb Resolution)	(0 to 500 000) lb	82 lb	
(200 lb Resolution)	(0 to 500 000) lb	163 lb	

**Mass – Mass Artifacts**

Calibration Parameter/Equipment	Range	Calibration and Measurement Capability(+/-)	Remarks
Industrial Weight Test and Calibration	25 lb	0.1 g	SOP 8 Modified Substitution and SOP 7 Single Substitution Rogan Incorporated Procedures
	50 lb	0.2 g	
	500 lb	6.5 g	SOP 7 Single Substitution Rogan Incorporated Procedures
	1000 lb	4.4 g	

Calibration and Measurement Capability (CMC) represents expanded uncertainties at approximately a 95% confidence level using a coverage factor of k=2.

Notes:

- 1) Laboratory offers calibration services at the laboratory's own facilities and at the client or other agreed upon facilities.

Approved by:   
**R. Douglas Leonard**  
 Chief Technical Officer

Date: September 12, 2011