# CERTIFICATE OF CALIBRATION



## eGauge Systems LLC

1644 Conestoga St, Suite 2 Boulder, CO 80301, USA

Tel: +1 (720) 545-9767 Fax: +1 (720) 545-9768

http://www.egauge.net/

Test Result: 0.5% PASS
Certificate No.: EXAMPLE

Issue Date: July 9, 2019

Page: 1 of 1

Device Serial No.:

Measurement Date:

Calibration Date:

Model Type Number:

LXAMPLE

July 2, 2019

July 2, 2019

EG4130

Description: Multi-channel power meter, data-logger, and web-server.

Sensors Used: C1-15, B1-15: Continental Control ACT-0750-100 (100A/0.75")

Standard Used: Radian RD-20-103, S/N 207036, v07.22.04

Ambient Temperature/Humidity: 24.8 °C / 39%

Applied Voltage: 118.7 Vrms / 59.0 Hz

## Power Factor 1 (current in phase with voltage)

App	lied						Me	asured	Error [9	<sub>3</sub> 3							
	Energy					#4						#10				#14	
15.0 A	30.0 Wh	±0.2%	+0.04	+0.03	+0.03	+0.03	+0.03	+0.02	+0.03	+0.02	+0.02	+0.04	+0.03	+0.02	+0.04	+0.03	+0.07
1.5 A	3.0 Wh	$\pm 0.5 \%^{2}$	+0.04	+0.06	+0.06	+0.01	+0.07	-0.02	+0.08	-0.02	+0.04	+0.08	+0.07	+0.02	+0.03	+0.06	+0.06
	50.5 Wh																
94.2A	95.1 Wh	±0.5%2	+0.01	+0.00	+0.00	+0.00	+0.00	+0.01	+0.01	+0.01	+0.00	-0.00	+0.00	+0.01	+0.01	+0.01	+0.01
	Energy															#29	
15.0 A	30.0 Wh	±0.2%	+0.02	+0.01	+0.02	+0.02	+0.01	+0.01	+0.03	+0.01	+0.03	+0.04	+0.02	+0.02	+0.03	+0.03	+0.04
1.5 A	3.0 Wh	±0.5%2	+0.14	+0.08	+0.04	+0.05	+0.06	+0.09	+0.11	+0.12	+0.09	+0.10	+0.09	+0.07	+0.08	+0.04	+0.11
50.1 A	50.5 Wh	±0.5%2	+0.01	+0.02	+0.01	+0.01	+0.01	+0.02	+0.01	+0.01	+0.00	+0.01	+0.00	+0.00	+0.01	+0.00	-0.00
94.2 A	95.1 Wh	±0.5%2	+0.01	+0.01	+0.01	+0.01	+0.01	+0.02	+0.01	+0.01	+0.01	-0.00	+0.00	+0.00	+0.01	-0.00	+0.00

## Power Factor 0.5 leading (current leading voltage by 60°)

Current	Energy	Tol.	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12	#13	#14	#15
15.0 A																	
1.5 A	1.4 Wh	±1.0%2	+0.17	+0.30	+0.27	+0.24	+0.17	+0.35	+0.18	+0.32	+0.42	+0.10	+0.09	+0.31	+0.31	+0.30	+0.20
49.7A	23.5 Wh	±0.6%2	+0.09	+0.15	+0.19	+0.12	+0.20	+0.12	+0.10	+0.10	+0.18	+0.05	+0.19	+0.18	+0.13	+0.22	+0.15
93.8 A	44.2 Wh	±0.6%2	+0.14	+0.22	+0.26	+0.19	+0.26	+0.16	+0.17	+0.16	+0.24	+0.03	+0.25	+0.24	+0.17	+0.28	+0.20
Current	Energy	Tol	#16	#17	#18	#19	#20	#21	#22	#23	#24	#25	#26	#27	#28	#29	#30
Current	Energy	Tol.	#16	#17	#18	#19	#20	#21	#22	#23	#24	#25	#26	#27	#28	#29	#30
15.0 A	7.1 Wh	$\pm 0.68^{2}$	+0.12	+0.12	+0.25	+0.05	+0.04	+0.06	+0.00	+0.20	-0.05	-0.20	-0.15	+0.03	+0.01	+0.15	+0.14
15.0 A	7.1 Wh 1.4 Wh	$\pm 0.68^{2}$	+0.12	+0.12	+0.25	+0.05	+0.04	+0.06	+0.00	+0.20	-0.05	-0.20	-0.15	+0.03	+0.01	+0.15	+0.14
15.0 A 1.5 A 49.7 A	7.1 Wh	$\pm 0.6\%^2$ $\pm 1.0\%^2$ $\pm 0.6\%^2$	+0.12 +0.18 +0.10	+0.12 +0.30 +0.11	+0.25 +0.41 +0.23	+0.05 +0.17 +0.04	+0.04 +0.24 +0.01	+0.06 +0.08 +0.05	+0.00 +0.24 +0.00	+0.20 +0.31 +0.19	-0.05 +0.09 -0.05	-0.20 -0.08 -0.22	-0.15 -0.02 -0.14	+0.03 +0.19 +0.02	+0.01 +0.02 +0.03	+0.15 +0.34 +0.14	+0.14 +0.27 +0.14

### Power Factor 0.5 lagging (current lagging voltage by 60°)

Current	Energy	Tol.	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12	#13	#14	#15
	7.9Wh																
	1.6 Wh																
	26.4 Wh																
94.2 A	49.5 Wh	±0.6%2	-0.12	-0.19	-0.22	-0.16	-0.23	-0.14	-0.15	-0.13	-0.21	-0.01	-0.21	-0.22	-0.15	-0.25	-0.17
Current	Energy	Tol.	#16	#17	#18	#19	#20	#21	#22	#23	#24	#25	#26	#27	#28	#29	#30
15.0 A	7.9Wh	±0.6%2	-0.09	-0.09	-0.22	-0.05	-0.01	-0.04	-0.00	-0.15	+0.05	+0.19	+0.13	+0.01	+0.01	-0.11	-0.12
15.0 A 1.5 A	7.9 Wh 1.6 Wh	±0.6% <sup>2</sup> ±1.0% <sup>2</sup>	-0.09 -0.18	-0.09 -0.22	-0.22 -0.16	-0.05 -0.14	-0.01 -0.03	-0.04 -0.17	-0.00 +0.04	0.15	+0.05	+0.19	+0.13	+0.01	+0.01	-0.11 -0.22	-0.12 -0.31
15.0 A 1.5 A 49.8 A	7.9Wh	±0.6% <sup>2</sup> ±1.0% <sup>2</sup> ±0.6% <sup>2</sup>	-0.09 -0.18 -0.08	-0.09 -0.22 -0.10	-0.22 -0.16 -0.19	-0.05 -0.14 -0.04	-0.01 -0.03 +0.00	-0.04 -0.17 -0.03	-0.00 +0.04 +0.01	-0.15 -0.22 -0.16	+0.05 -0.07 +0.05	+0.19 +0.09 +0.17	+0.13 +0.01 +0.13	+0.01 +0.14 -0.00	+0.01 -0.08 -0.03	-0.11 -0.22 -0.12	-0.12 -0.31 -0.11

#### Footnotes:

- 1: Absolute tolerance. This test establishes the reference condition.
- 2: Tolerance relative to reference condition.
- 3: Maximum deviation(s) shown in bold.