

Meter Accuracy Certificate

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The eGauge Meter Accuracy Certificate may be purchased with an eGauge meter to show the test conditions and results of the specific eGauge meter hardware. This document provides compliance of ANSI C12.20 0.5% revenue grade accuracy.

Notice: The eGauge Meter Accuracy Certificate must be requested at the time of meter purchase. Meters cannot have a certificate generated once they are shipped.

CERTIFICATE OF CALIBRATION



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Test Result: **0.5% PASS**
Certificate No.: **EXAMPLE**
Issue Date: July 9, 2019
Page: 1 of 1

Device Serial No.: **EXAMPLE**
Measurement Date: July 2, 2019
Calibration Date: July 2, 2019
Model Type Number: 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)

Applied Current	Energy	Tol.	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12	#13	#14	#15
15.0A	7.9 Wh	±0.2%	+0.04	+0.03	+0.03	+0.03	+0.03	+0.02	+0.03	+0.02	+0.04	+0.02	+0.04	+0.02	+0.04	+0.03	+0.07
1.5A	3.0 Wh	±0.5%	+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
50.1A	50.5 Wh	±0.5%	+0.01	+0.01	+0.01	+0.01	+0.00	+0.01	+0.01	+0.01	+0.01	+0.01	+0.01	+0.01	+0.01	+0.02	+0.02
94.2A	95.1 Wh	±0.5%	+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
Current	Energy	Tol.	#16	#17	#18	#19	#20	#21	#22	#23	#24	#25	#26	#27	#28	#29	#30
15.0A	7.9 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
1.5A	3.0 Wh	±0.5%	+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
50.1A	50.5 Wh	±0.5%	+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
94.2A	95.1 Wh	±0.5%	+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
15.0A	7.9 Wh	±0.6%	+0.08	+0.13	+0.19	+0.13	+0.18	+0.09	+0.12	+0.08	+0.18	+0.05	+0.21	+0.19	+0.15	+0.22	+0.15
1.5A	1.4 Wh	±1.0%	+0.17	+0.30	+0.27	+0.24	+0.17	+0.35	+0.38	+0.32	+0.42	+0.10	+0.09	+0.36	+0.31	+0.30	+0.20
49.7A	23.5 Wh	±0.6%	+0.09	+0.15	+0.19	+0.12	+0.20	+0.12	+0.10	+0.10	+0.18	+0.05	+0.19	+0.15	+0.13	+0.22	+0.15
93.8A	44.2 Wh	±0.6%	+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
15.0A	7.9 Wh	±0.6%	+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
1.5A	1.4 Wh	±1.0%	+0.18	+0.30	+0.41	+0.17	+0.24	+0.08	+0.24	+0.31	+0.09	-0.08	-0.02	+0.19	+0.02	+0.34	+0.27
49.7A	23.5 Wh	±0.6%	+0.10	+0.11	+0.23	+0.04	+0.01	+0.05	+0.00	+0.19	-0.05	-0.22	-0.14	+0.02	+0.03	+0.14	+0.14
93.8A	44.2 Wh	±0.6%	+0.17	+0.18	+0.30	+0.11	+0.07	+0.12	+0.07	+0.24	+0.01	-0.15	-0.09	+0.06	+0.10	+0.20	+0.19

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
15.0A	7.9 Wh	±0.6%	-0.08	-0.13	-0.14	-0.12	-0.17	-0.06	-0.07	-0.08	-0.15	-0.04	-0.16	-0.16	-0.09	-0.17	-0.13
1.5A	1.6 Wh	±1.0%	-0.35	-0.33	-0.37	-0.20	-0.36	-0.05	-0.26	-0.21	-0.24	-0.15	-0.37	-0.23	-0.21	-0.22	-0.17
49.8A	26.4 Wh	±0.6%	-0.07	-0.14	-0.16	-0.11	-0.17	-0.08	-0.09	-0.09	-0.15	-0.04	-0.18	-0.16	-0.10	-0.19	-0.13
94.2A	49.5 Wh	±0.6%	-0.12	-0.19	-0.22	-0.16	-0.23	-0.14	-0.15	-0.13	-0.21	-0.01	-0.21	-0.23	-0.15	-0.35	-0.17
Current	Energy	Tol.	#16	#17	#18	#19	#20	#21	#22	#23	#24	#25	#26	#27	#28	#29	#30
15.0A	7.9 Wh	±0.6%	-0.09	-0.09	-0.22	-0.05	-0.01	-0.04	-0.04	-0.15	-0.05	+0.19	+0.15	+0.01	+0.01	-0.11	-0.11
1.5A	1.6 Wh	±1.0%	-0.18	-0.22	-0.16	-0.14	-0.03	-0.17	+0.04	-0.22	-0.07	+0.09	+0.01	+0.14	-0.08	-0.22	-0.31
49.8A	26.4 Wh	±0.6%	-0.08	-0.10	-0.19	-0.04	+0.00	-0.03	+0.01	-0.16	+0.05	+0.17	+0.13	-0.00	-0.03	-0.12	-0.11
94.2A	49.5 Wh	±0.6%	-0.15	-0.15	-0.26	-0.09	-0.05	-0.10	-0.05	-0.21	-0.01	+0.14	+0.08	-0.05	-0.08	-0.17	-0.16

Footnotes:

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

Hardware included

- Printed accuracy certificate
- PDF version may be provided upon request

Related Information

- [eGauge Meters](#)

Please visit kb.egauge.net for the most up-to-date documentation.