



ABOUT THE
JOURNAL

GUIDE FOR AUTHOR

SUBMIT YOUR PAPER

FAST TRACK REVIEW

REFERENCE STYLE

PUBLICATION ETHICS

INDEXING AND
ABSTRACTING

DOWNLOAD TEMPLATE

DOWNLOAD COPYRIGHT
TRANSFER AGREEMENT
FORM

DOWNLOAD RESPONSE
TO REVIEWER FORM

HOME

ABOUT

USER HOME

CATEGORIES

SEARCH

CURRENT

ARCHIVES

ANNOUNCEMENTS

CFP

[Home](#) > [User](#) > [Author](#) > [Submissions](#) > [#8718](#) > [Summary](#)

#8718 Summary

SUMMARY

REVIEW

EDITING

Submission

Authors	Agung Budi Muljono, I Made Ari Nrartha, I Made Ginarsa, I Made Budi Suksmadana
Title	Rancang Bangun Smart Energy Meter Berbasis UNO dan Raspberry Pi
Original file	8718-20297-1-SM.DOCX 2017-10-18
Supp. files	8718-20298-1-SP.JPG 2017-10-18 8718-20299-1-SP.JPG 2017-10-18 8718-20300-1-SP.JPG 2017-10-18 8718-20303-1-SP.JPG 2017-10-18 8718-20304-1-SP.JPG 2017-10-18 8718-20305-1-SP.JPG 2017-10-18 8718-20306-1-SP.JPG 2017-10-18 8718-20307-1-SP.JPG 2017-10-18 8718-20308-1-SP.JPG 2017-10-18 8718-20309-1-SP.JPG 2017-10-18 8718-20310-1-SP.JPG 2017-10-18 8718-20311-1-SP.JPG 2017-10-18 8718-20312-1-SP.JPG 2017-10-18

AUTHORS INDEX

ACCREDITATION
CERTIFICATE

INDEXED BY

UNIVERSITEITS
BIBLIOTHEEK
GENTDIRECTORY OF
OPEN ACCESS
JOURNALS

[8718-20313-1-SP.JPG](#) 2017-10-18
[8718-20314-1-SP.JPG](#) 2017-10-18
[8718-20315-1-SP.JPG](#) 2017-10-18
[8718-20316-1-SP.JPG](#) 2017-10-18
[8718-20317-1-SP.JPG](#) 2017-10-18

Submitter Mr. Agung Budi Muljono

Date submitted October 18, 2017 - 11:25 AM

Section Articles

Editor Ira Sara

Author comments Kepada Yth :
Dr. Fitri Arnia
Editorial Jurnal Rekayasa Elekrika
Bersama ini kami kirimkan paper hasil penelitian kami dengan judul "Rancang Bangun *Smart Energy Meter* Berbasis UNO dan Raspberrypi", untuk bisa dipublikasikan pada jurnal JRE.
Demikian atas perhatian dan kerjasamanya, kami sampaikan terimakasih.
Hormat kami,
Agung Budi Muljono, et.al
Jurusan Teknik Elektro Universitas Mataram, Jl. Majapahit No. 62 Mataram NTB.

Abstract Views 0

Status

Status Published Vol 14, No 1 (2018)

Initiated 2018-04-27

Last modified 2018-05-18

Submission Metadata

Authors

Name Agung Budi Muljono

ORCID iD <http://orcid.org/0000-0002-6444-4116>

Affiliation University of Mataram

Country Indonesia



Bio Statement	—
Principal contact for editorial correspondence.	
Name	I Made Ari Nrartha
URL	https://orcid.org/0000-0001-9779-5759
Affiliation	University of Mataram
Country	Indonesia
Bio Statement	—
Name	I Made Ginarsa
ORCID iD	https://orcid.org/0000-0002-3075-2698
Affiliation	University of Mataram
Country	Indonesia
Bio Statement	—
Name	I Made Budi Suksmadana
Affiliation	University of Mataram
Country	Indonesia
Bio Statement	—

Title and Abstract

Title	Rancang Bangun Smart Energy Meter Berbasis UNO dan Raspberry Pi
Abstract	<i>Smart energy meter (SEM) is developed to the transparency goal of energy consumption by consumers for tariff strategy. The tariff strategy is designed based on the type of consumer load that per-kWh energy price difference for linear and nonlinear loads. Energy conscious awareness is built by displaying all load power consumption information from consumer loads such as voltage, current, power factor, load properties, load type, power, volt-ampere distortion, power factor distortion, THD, current and voltage waveforms, and harmonic frequency spectrum. The SEM is designed using ZMCT103C and ZMPT101B for current and voltage sensors, respectively. The SEM security function uses the SW420 vibrating sensor, open/close bolt sensor on the chasing and electronic lock. The results show that error measurement of the voltage sensor, current sensor, and power factor are 0.8%, 1.5%, and 1.0% respectively. The SEM security works well as the information on maintenance and criminal actions are informed on screen and buzzer sound for criminal acts. The tariff strategy for linear and nonlinear loads is used to calculate the energy cost per-kWh. The details of load energy consumption are stored in a database.</i>

Indexing

Keywords	Smart Energy Meter; UNO; raspberrypi; python; mysql
----------	-----------------------------------------------------

Language id

Supporting Agencies

Agencies —

References

References —

376212

[View My Stats](#)



Jurnal Rekeyasa ElektriKA (JRE) is published under license of [Creative Commons Attribution-ShareAlike 4.0 International License](#).



ABOUT THE
JOURNAL

GUIDE FOR AUTHOR

SUBMIT YOUR PAPER

FAST TRACK REVIEW

REFERENCE STYLE

PUBLICATION ETHICS

INDEXING AND
ABSTRACTING

DOWNLOAD TEMPLATE

DOWNLOAD COPYRIGHT
TRANSFER AGREEMENT
FORM

DOWNLOAD RESPONSE
TO REVIEWER FORM

HOME

ABOUT

USER HOME

CATEGORIES

SEARCH

CURRENT

ARCHIVES

ANNOUNCEMENTS

CFP

[Home](#) > [User](#) > [Author](#) > [Submissions](#) > [#8718](#) > [Review](#)

#8718 Review

SUMMARY

REVIEW

EDITING

Submission

Authors	Agung Budi Muljono, I Made Ari Nrartha, I Made Ginarsa, I Made Budi Suksmadana
Title	Rancang Bangun Smart Energy Meter Berbasis UNO dan Raspberry Pi
Section	Articles
Editor	Ira Sara

Peer Review

Round 1

Review Version	8718-20318-2-RV.DOCX 2018-03-05
Initiated	2018-03-05
Last modified	2018-03-12
Uploaded file	None



AUTHORS INDEX

ACCREDITATION
CERTIFICATE

INDEXED BY

UNIVERSITEITS
BIBLIOTHEEK
GENTDIRECTORY OF
OPEN ACCESS
JOURNALS

Editor Decision

Decision	Accept Submission 2018-03-12
Notify Editor	 Editor/Author Email Record  2018-04-27
Editor Version	8718-24239-1-ED.DOCX 2018-03-05 8718-24239-2-ED.DOCX 2018-03-12
Author Version	None
Upload Author Version	<input type="button" value="Choose File"/> <input type="text" value="No file chosen"/> <input type="button" value="Upload"/>

376215

[View My Stats](#)

Jurnal Rekayasa Elektrika (JRE) is published under license of [Creative Commons Attribution-ShareAlike 4.0 International License](#).



INFORMATION SERVICES





ABOUT THE JOURNAL

GUIDE FOR AUTHOR

SUBMIT YOUR PAPER

FAST TRACK REVIEW

REFERENCE STYLE

PUBLICATION ETHICS

INDEXING AND
ABSTRACTING

DOWNLOAD TEMPLATE

DOWNLOAD COPYRIGHT
TRANSFER AGREEMENT
FORM

DOWNLOAD RESPONSE
TO REVIEWER FORM

HOME

ABOUT

USER HOME

CATEGORIES

SEARCH

CURRENT

ARCHIVES

ANNOUNCEMENTS

CFP

[Home](#) > [User](#) > [Author](#) > [Submissions](#) > [#8718](#) > [Editing](#)

#8718 Editing

SUMMARY

REVIEW

EDITING

Submission

Authors Agung Budi Muljono, I Made Ari Nrartha, I Made Ginarsa, I Made Budi Suksmadana

Title Rancang Bangun Smart Energy Meter Berbasis UNO dan Raspberry Pi

Section Articles

Editor Ira Sara

Copyediting

COPYEDIT INSTRUCTIONS

Copyeditor Lili Roslidar

REVIEW METADATA

	REQUEST	UNDERWAY	COMPLETE
1. Initial Copyedit	2018-03-14	2018-03-14	2018-03-16

AUTHORS INDEX

ACCREDITATION
CERTIFICATE

INDEXED BY

UNIVERSITEITS
BIBLIOTHEEK
GENTFile: [8718-24644-2-CE.DOCX](#) 2018-03-16

2.	Author Copyedit	2018-03-25	2018-03-25	2018-04-19
----	-----------------	------------	------------	------------

File: [8718-24644-3-CE.DOCX](#) 2018-04-19

Choose File No file chosen

Upload

3.	Final Copyedit	2018-04-19	2018-04-19	2018-04-19
----	----------------	------------	------------	------------

File: [8718-26126-1-CE.DOCX](#) 2018-04-19

Copyedit Comments No Comments

Layout

Layout Editor Zulhelmi Zulhelmi

Layout Version	REQUEST	UNDERWAY	COMPLETE	VIEWS
----------------	---------	----------	----------	-------

8718-26128-2-LE.PDF 2018-04-27	2018-04-24	2018-04-24	2018-04-27	
------------------------------------------------	------------	------------	------------	--

Galley Format FILE

1.	PDF VIEW PROOF	8718-26590-4-PB.PDF 2018-05-18	0
----	--------------------------------	------------------------------------------------	---

Supplementary Files FILE

1.	Gb.1	8718-20298-1-SP.JPG 2017-10-18
2.	Gb.2	8718-20299-1-SP.JPG 2017-10-18
3.	Gb.3	8718-20300-1-SP.JPG 2017-10-18
4.	Gb.4	8718-20303-1-SP.JPG 2017-10-18
5.	Gb.5	8718-20304-1-SP.JPG 2017-10-18
6.	Gb.6	8718-20305-1-SP.JPG 2017-10-18
7.	Gb.7	8718-20306-1-SP.JPG 2017-10-18
8.	Gb.8	8718-20307-1-SP.JPG 2017-10-18
9.	Gb.9	8718-20308-1-SP.JPG 2017-10-18
10.	Gb.10	8718-20309-1-SP.JPG 2017-10-18
11.	Gb.11	8718-20310-1-SP.JPG 2017-10-18



12.	GB.12	8718-20311-1-SP.JPG	2017-10-18
13.	Gb.13	8718-20312-1-SP.JPG	2017-10-18
14.	Gb.14	8718-20313-1-SP.JPG	2017-10-18
15.	Gb.15	8718-20314-1-SP.JPG	2017-10-18
16.	Gb.16	8718-20315-1-SP.JPG	2017-10-18
17.	Gb.17	8718-20316-1-SP.JPG	2017-10-18
18.	Gb.18	8718-20317-1-SP.JPG	2017-10-18

#8718 Editing

Layout Comments No Comments

Proofreading

[REVIEW METADATA](#)

	REQUEST	UNDERWAY	COMPLETE
1. Author	—	—	
2. Proofreader	—	—	—
3. Layout Editor	—	—	—

Proofreading Corrections No Comments [PROOFING INSTRUCTIONS](#)

376217

[View My Stats](#)


Jurnal Rekayasa ElektriKA (JRE) is published under license of [Creative Commons Attribution-ShareAlike 4.0 International License](#).



ABOUT THE
JOURNAL

GUIDE FOR AUTHOR

SUBMIT YOUR PAPER

FAST TRACK REVIEW

REFERENCE STYLE

PUBLICATION ETHICS

INDEXING AND
ABSTRACTING

DOWNLOAD TEMPLATE

DOWNLOAD COPYRIGHT
TRANSFER AGREEMENT
FORM

DOWNLOAD RESPONSE
TO REVIEWER FORM

HOME

ABOUT

USER HOME

CATEGORIES

SEARCH

CURRENT

ARCHIVES

ANNOUNCEMENTS

CFP

[Home](#) > [User](#) > [Author](#) > [Submissions](#) > [#8718](#) > [Summary](#) > [View Metadata](#)

View Metadata

Authors

Name	Agung Budi Muljono
URL	—
Affiliation	University of Mataram
Country	Indonesia
Bio Statement	—
Name	I Made Ari Nrartha
URL	https://orcid.org/0000-0001-9779-5759
Affiliation	University of Mataram
Country	Indonesia
Bio Statement	—
Name	I Made Ginarsa
URL	—
Affiliation	University of Mataram
Country	Indonesia

AUTHORS INDEX

ACCREDITATION
CERTIFICATE

INDEXED BY

UNIVERSITEITS
BIBLIOTHEEK
GENTDOAJ
DIRECTORY OF
OPEN ACCESS
JOURNALS

Bio Statement	—
Name	I Made Budi Suksmadana
URL	—
Affiliation	University of Mataram
Country	Indonesia
Bio Statement	—

Title and Abstract

Title	Rancang Bangun Smart Energy Meter Berbasis UNO dan Raspberry Pi
Abstract	<i>Smart energy meter (SEM) is developed to the transparency goal of energy consumption by consumers for tariff strategy. The tariff strategy is designed based on the type of consumer load that per-kWh energy price difference for linear and nonlinear loads. Energy conscious awareness is built by displaying all load power consumption information from consumer loads such as voltage, current, power factor, load properties, load type, power, volt-ampere distortion, power factor distortion, THD, current and voltage waveforms, and harmonic frequency spectrum. The SEM is designed using ZMCT103C and ZMPT101B for current and voltage sensors, respectively. The SEM security function uses the SW420 vibrating sensor, open/close bolt sensor on the chasing and electronic lock. The results show that error measurement of the voltage sensor, current sensor, and power factor are 0.8%, 1.5%, and 1.0% respectively. The SEM security works well as the information on maintenance and criminal actions are informed on screen and buzzer sound for criminal acts. The tariff strategy for linear and nonlinear loads is used to calculate the energy cost per-kWh. The details of load energy consumption are stored in a database.</i>

Cover

Cover image	—
Alternate text	

Indexing



Keywords Smart Energy Meter; UNO; raspberrypi; python; mysql
Language id

Supporting Agencies

Agencies —

376218

[View My Stats](#)



Jurnal Rekayasa Elektrika (JRE) is published under license of [Creative Commons Attribution-ShareAlike 4.0 International License](#).