



Trend Summary Report

Report start	09/04/2020 10:30:00
Report end	16/04/2020 09:50:00
Report duration	6 days, 23:20:00 (h:min:s)
Instrument ID	PEL103 108684TAH

Database File Name: Test Record_4.dvb

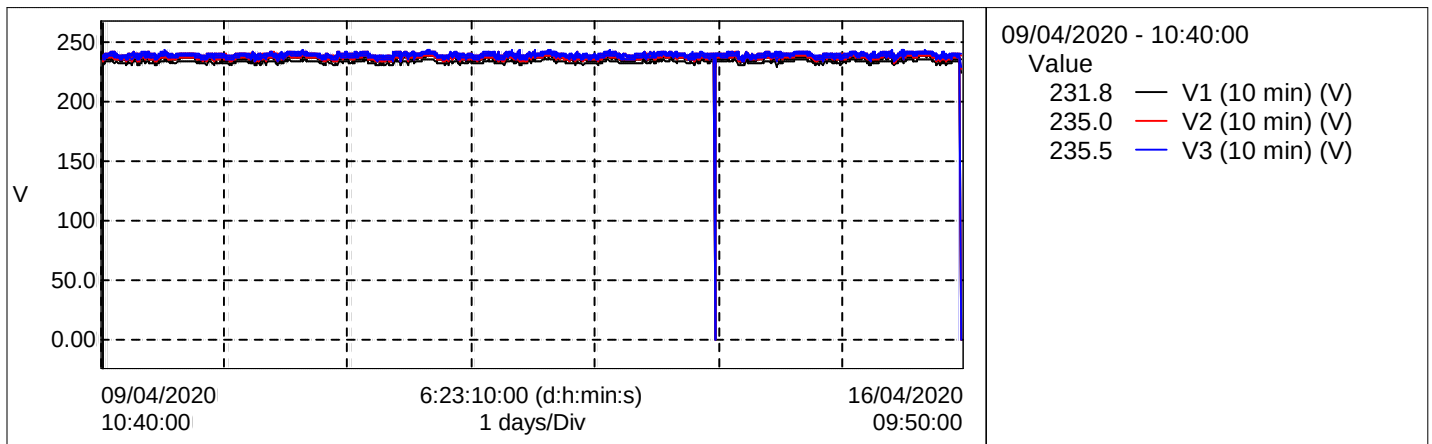
Operator	Quantum Controls Limited Peter Stelling
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Test Site	Sample Site
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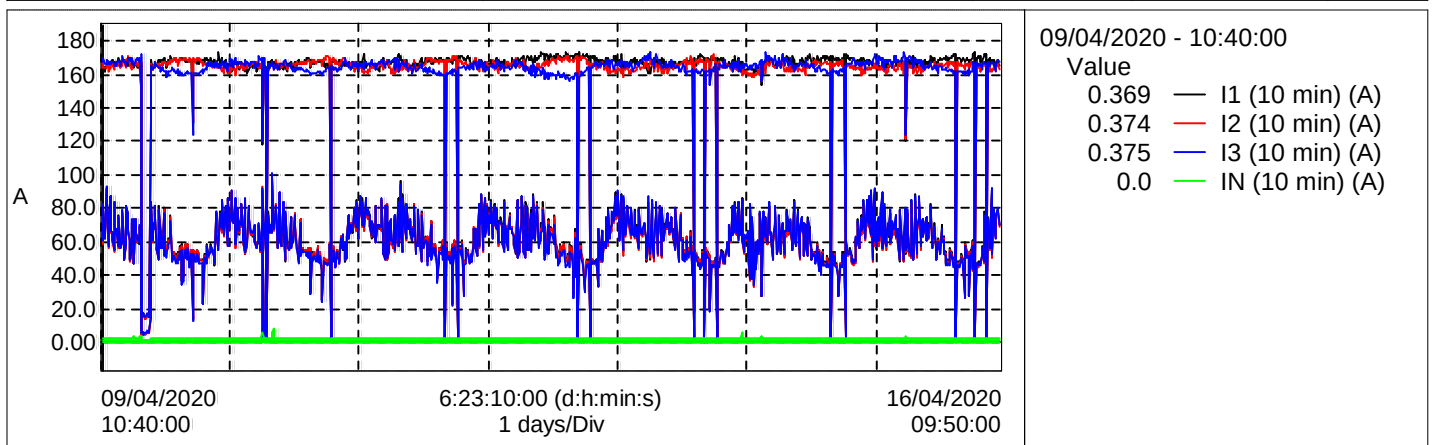
Comments	Post VSD installation report.
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Table of Contents	
Coversheet	1
Table of Contents	2
V (V) - I (A) - P (W)	3
Phase-to-Neutral Voltage RMS	4
Phase-to-Phase Voltage RMS	5
Current RMS	6
Power Factor	7
Active Power P (kW)	8
Apparent Power S (kVA)	9
Reactive Power Q (kvar)	10
Active Energy Ep (kWh)	11
Apparent Energy Es (kVAh)	12
Reactive Energy Eq (kvarh)	13
F (Hz)	14
CF	15
Cos ϕ (DPF)	16
Tan Φ	17
Phase-to-Neutral Total Harmonic Distortion	18
Phase-to-Phase Total Harmonic Distortion	19
Current Total Harmonic Distortion	20
Events	21
Total energies and costs	22
Configuration	23
Glossary	24

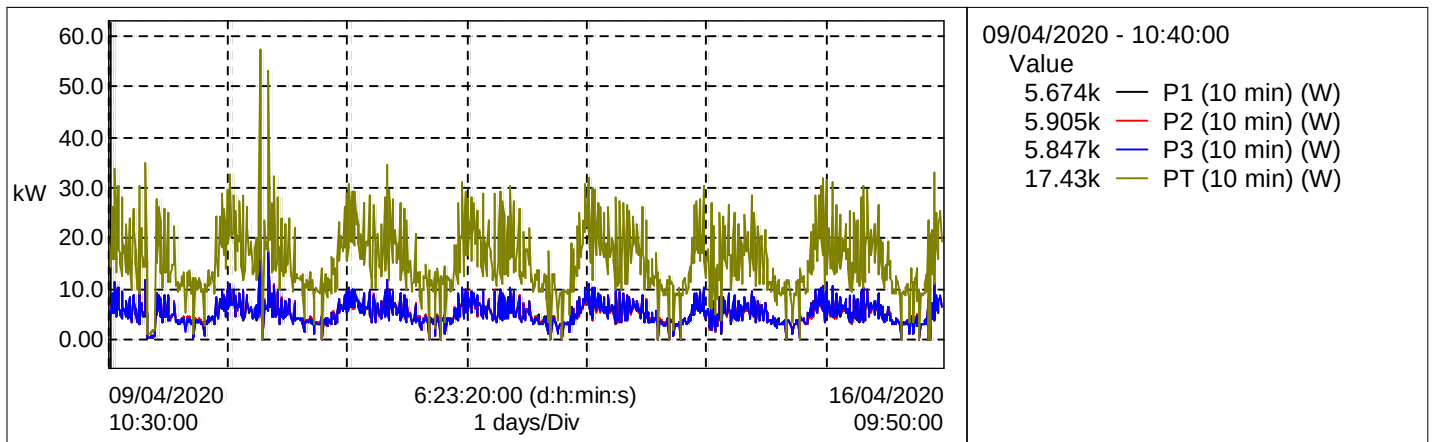
Name	AVG	MIN	MIN date	MIN time	MAX	MAX date	MAX time	Units
V1 (10 min)	235.9	-0.0	14/04/2020	09:57:02	240.3	13/04/2020	01:44:09	V
V2 (10 min)	239.0	-0.0	14/04/2020	09:57:18	242.8	15/04/2020	22:31:21	V
V3 (10 min)	239.6	-0.0	14/04/2020	09:57:18	243.6	13/04/2020	01:44:08	V



Name	AVG	MIN	MIN date	MIN time	MAX	MAX date	MAX time	Units
I1 (10 min)	61.81	-0.0	14/04/2020	09:57:02	173.3	13/04/2020	03:23:21	A
I2 (10 min)	61.04	-0.0	14/04/2020	09:57:02	172.3	14/04/2020	04:33:17	A
I3 (10 min)	61.08	-0.0	14/04/2020	09:57:02	173.2	13/04/2020	16:45:10	A
IN (10 min)	946m	-0.0	09/04/2020	10:30:04	7.414	10/04/2020	18:30:35	A

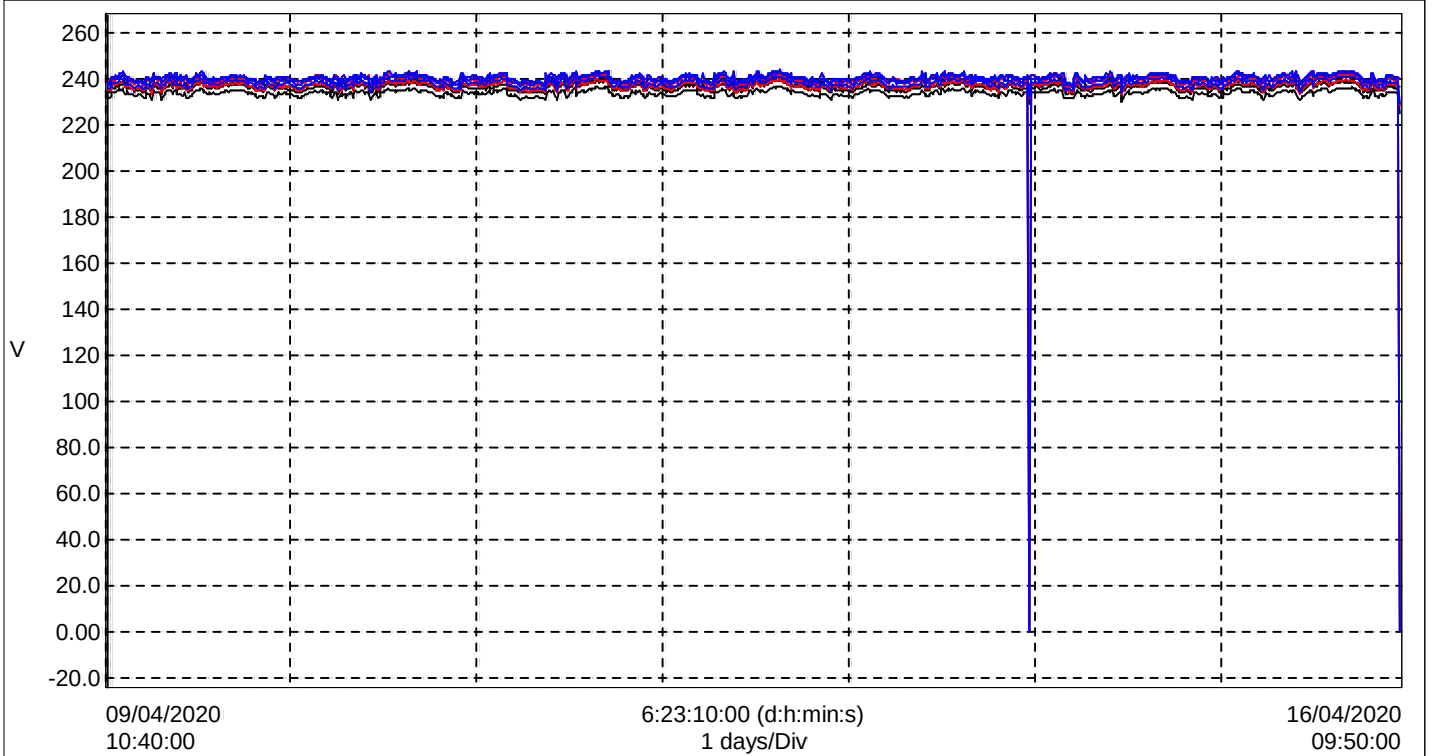


Name	AVG	MIN	MIN date	MIN time	MAX	MAX date	MAX time	Units
P1 (10 min)	5.127k	11.00	16/04/2020	07:30:00	18.68k	10/04/2020	16:40:00	W
P2 (10 min)	5.119k	9.000	13/04/2020	03:20:00	19.46k	10/04/2020	16:40:00	W
P3 (10 min)	5.135k	31.00	16/04/2020	07:40:00	19.18k	10/04/2020	16:40:00	W
PT (10 min)	15.38k	67.00	16/04/2020	07:30:00	57.32k	10/04/2020	16:40:00	W



Phase-to-Neutral Voltage RMS

Name	AVG	MIN	MIN date	MIN time	MAX	MAX date	MAX time	Units
V1 (10 min)	235.9	-0.0	14/04/2020	09:57:02	240.3	13/04/2020	01:44:09	V
V2 (10 min)	239.0	-0.0	14/04/2020	09:57:18	242.8	15/04/2020	22:31:21	V
V3 (10 min)	239.6	-0.0	14/04/2020	09:57:18	243.6	13/04/2020	01:44:08	V



09/04/2020 - 10:40:00

Value

231.8 — V1 (10 min) (V)
 235.0 — V2 (10 min) (V)
 235.5 — V3 (10 min) (V)

V1 (10 min) (V)

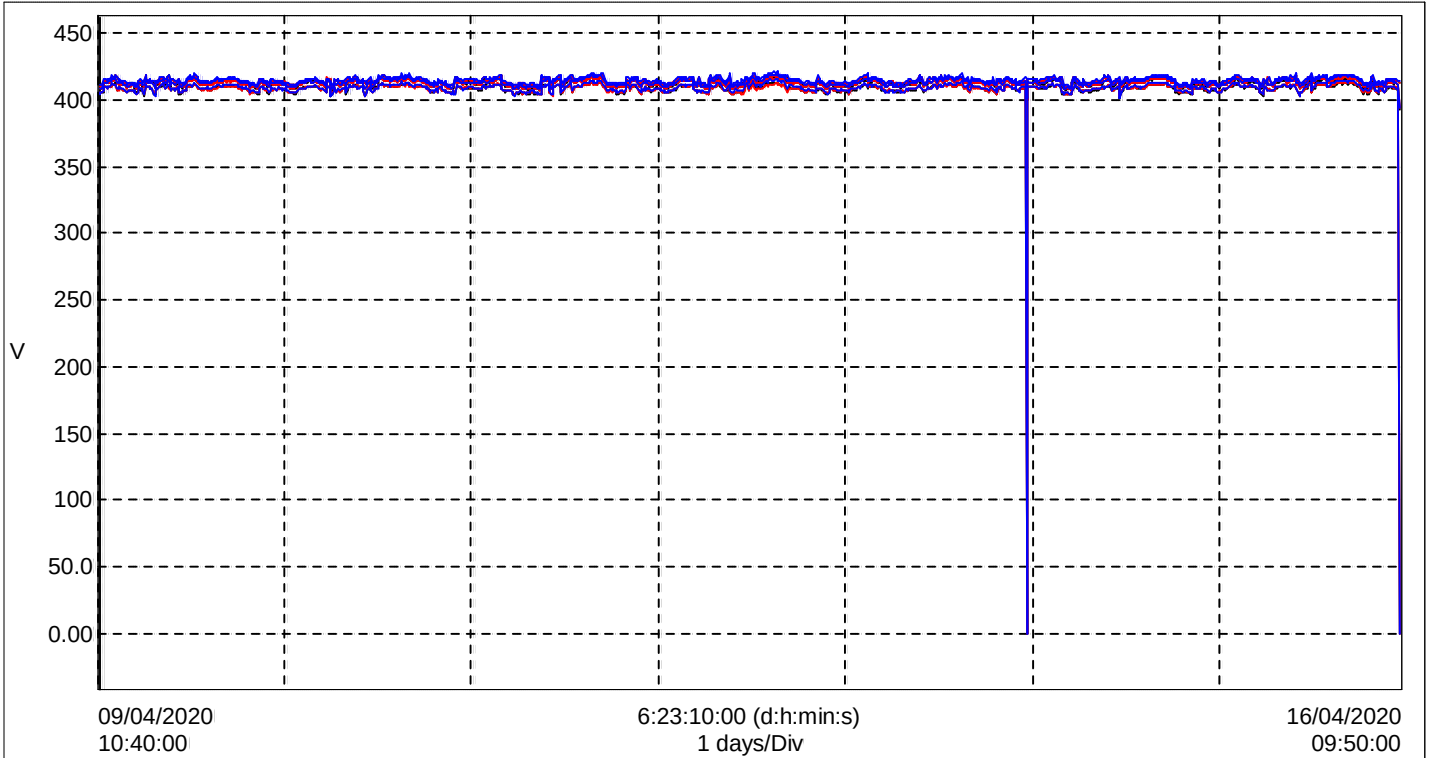
Date	Time	AVG	MIN time	1 s MIN	MAX time	1 s MAX
09/04/2020	10:40:00	233.7	10:31:47	231.8	10:33:51	234.8
09/04/2020	10:50:00	233.5	10:48:30	231.7	10:43:13	234.5
09/04/2020	11:00:00	233.6	10:56:27	231.5	10:58:33	235.2
09/04/2020	11:10:00	235.5	11:02:06	232.4	11:07:07	237.3
09/04/2020	11:20:00	236.0	11:10:07	234.0	11:18:56	237.1
09/04/2020	11:30:00	235.9	11:29:49	233.7	11:24:40	237.2
09/04/2020	11:40:00	235.8	11:39:00	233.9	11:36:40	236.9
09/04/2020	11:50:00	236.3	11:42:03	234.2	11:47:43	237.5
09/04/2020	12:00:00	236.3	11:56:50	234.3	11:51:00	237.4
09/04/2020	12:10:00	236.7	12:00:25	234.4	12:06:44	238.1
09/04/2020	12:20:00	237.4	12:17:54	235.1	12:13:25	238.6
09/04/2020	12:30:00	237.1	12:20:51	235.0	12:24:13	238.3
09/04/2020	12:40:00	237.5	12:30:20	235.3	12:39:22	238.6

Exceptions

Name	Date	Time	Duration	Duration Units	MIN	MAX	AVG	Units

Phase-to-Phase Voltage RMS

Name	AVG	MIN	MIN date	MIN time	MAX	MAX date	MAX time	Units
U12 (10 min)	412.1	-0.0	14/04/2020	09:57:18	418.9	13/04/2020	01:43:50	V
U23 (10 min)	412.2	-0.0	14/04/2020	09:57:18	418.7	15/04/2020	22:31:20	V
U31 (10 min)	413.1	-0.0	14/04/2020	09:57:02	420.9	13/04/2020	01:44:09	V



09/04/2020 - 10:40:00

Value

405.4 — U12 (10 min) (V)
 405.5 — U23 (10 min) (V)
 404.7 — U31 (10 min) (V)

U12 (10 min) (V)

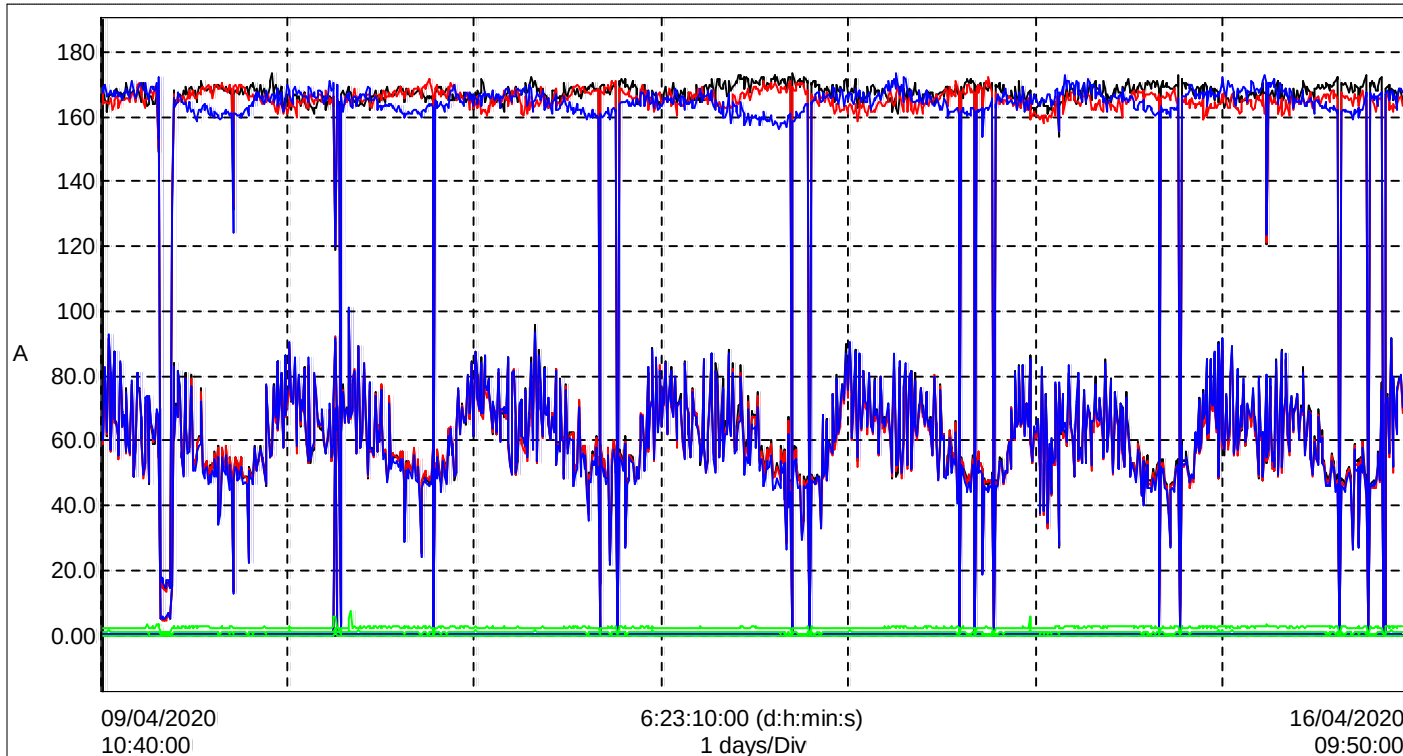
Date	Time	AVG	MIN time	1 s MIN	MAX time	1 s MAX
09/04/2020	10:40:00	408.7	10:39:59	405.4	10:35:01	410.4
09/04/2020	10:50:00	408.1	10:48:44	405.1	10:42:09	409.6
09/04/2020	11:00:00	408.3	10:56:58	404.9	10:58:31	410.9
09/04/2020	11:10:00	411.5	11:02:33	405.7	11:07:08	414.6
09/04/2020	11:20:00	412.5	11:10:05	409.5	11:15:21	414.1
09/04/2020	11:30:00	412.2	11:26:16	409.1	11:24:40	414.0
09/04/2020	11:40:00	412.1	11:37:58	409.1	11:32:43	413.7
09/04/2020	11:50:00	412.9	11:46:24	409.8	11:47:31	414.7
09/04/2020	12:00:00	412.9	11:56:23	409.5	11:51:01	414.8
09/04/2020	12:10:00	413.6	12:00:20	409.6	12:09:48	415.7
09/04/2020	12:20:00	414.8	12:17:37	410.9	12:13:25	416.6
09/04/2020	12:30:00	414.3	12:20:39	410.9	12:24:11	416.1
09/04/2020	12:40:00	415.3	12:38:04	411.9	12:39:21	417.0

Exceptions

Name	Date	Time	Duration	Duration Units	MIN	MAX	AVG	Units

Current RMS

Name	AVG	MIN	MIN date	MIN time	MAX	MAX date	MAX time	Units
I1 (10 min)	61.81	-0.0	14/04/2020	09:57:02	173.3	13/04/2020	03:23:21	A
I2 (10 min)	61.04	-0.0	14/04/2020	09:57:02	172.3	14/04/2020	04:33:17	A
I3 (10 min)	61.08	-0.0	14/04/2020	09:57:02	173.2	13/04/2020	16:45:10	A
IN (10 min)	946m	-0.0	09/04/2020	10:30:04	7.414	10/04/2020	18:30:35	A



09/04/2020 - 10:40:00

Value

0.369 — I1 (10 min) (A)
 0.374 — I2 (10 min) (A)
 0.375 — I3 (10 min) (A)

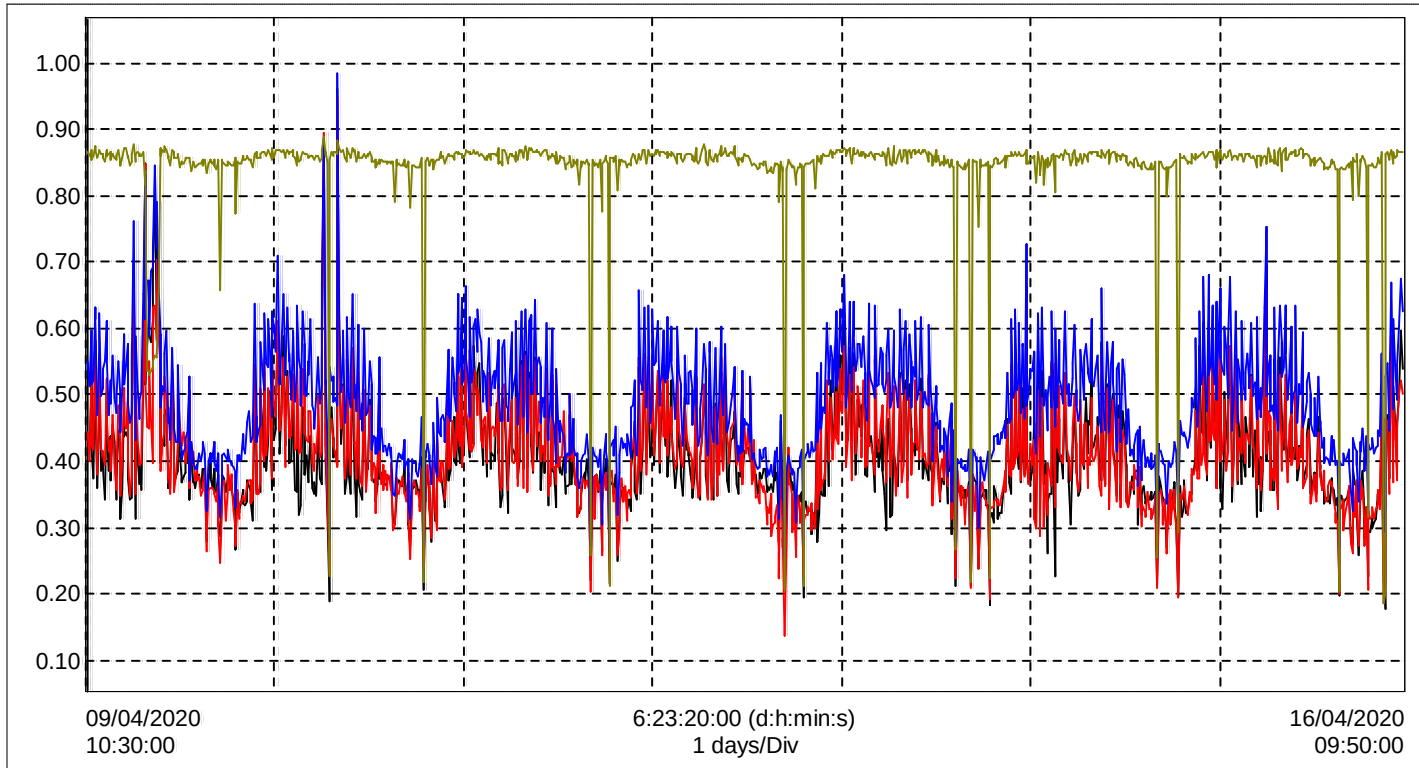
I1 (10 min) (A)

Date	Time	AVG	MIN time	1 s MIN	MAX time	1 s MAX
09/04/2020	10:40:00	65.65	10:39:03	369m	10:36:14	165.7
09/04/2020	10:50:00	60.57	10:43:31	342m	10:44:27	168.5
09/04/2020	11:00:00	80.44	10:57:50	354m	10:59:36	165.0
09/04/2020	11:10:00	62.35	11:01:51	377m	11:06:27	164.7
09/04/2020	11:20:00	61.50	11:12:00	367m	11:13:25	161.5
09/04/2020	11:30:00	91.94	11:27:38	365m	11:29:07	166.1
09/04/2020	11:40:00	79.93	11:37:29	345m	11:38:13	166.9
09/04/2020	11:50:00	57.26	11:43:50	361m	11:46:13	166.9
09/04/2020	12:00:00	75.84	11:56:24	346m	11:59:25	166.7
09/04/2020	12:10:00	87.53	12:03:48	345m	12:00:22	167.0
09/04/2020	12:20:00	66.98	12:11:37	355m	12:17:13	167.5
09/04/2020	12:30:00	65.86	12:22:25	338m	12:26:08	168.6
09/04/2020	12:40:00	60.62	12:32:00	350m	12:34:29	166.4

Exceptions

Name	Date	Time	Duration	Duration Units	MIN	MAX	AVG	Units

Power Factor								
Name	AVG	MIN	MIN date	MIN time	MAX	MAX date	MAX time	Units
PF1+ (10 min)	0.404	0.176	16/04/2020	07:40:00	0.962	10/04/2020	18:30:00	
PF1- (10 min)	---	NA	09/04/2020	10:40:00	NA	09/04/2020	10:40:00	
PF2+ (10 min)	0.406	0.137	13/04/2020	03:20:00	0.951	10/04/2020	18:30:00	
PF2- (10 min)	---	NA	09/04/2020	10:40:00	NA	09/04/2020	10:40:00	



09/04/2020 - 10:40:00

Value

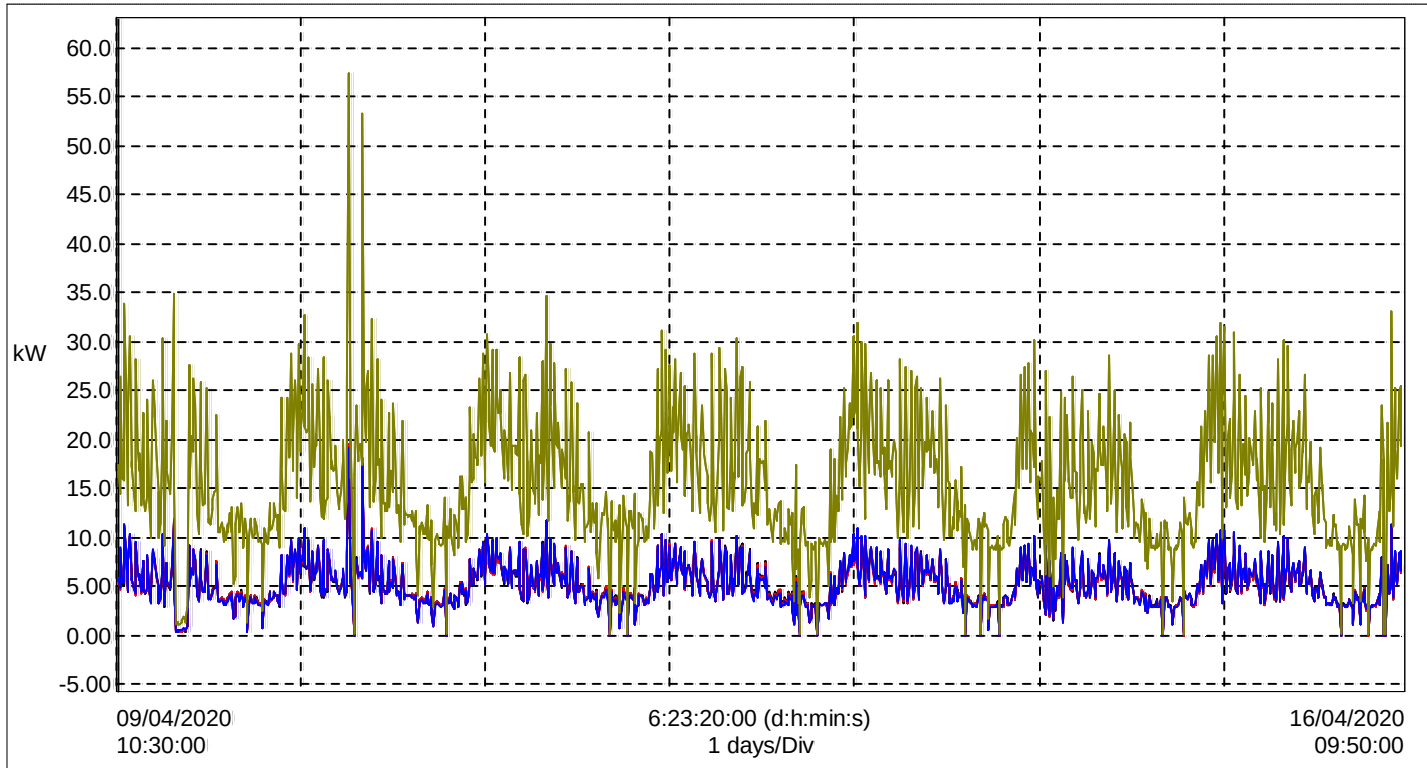
X.XX — PF1- (10 min) ()
X.XX — PF2- (10 min) ()
X.XX — PF3- (10 min) ()

PF1+ (10 min) ()		
Date	Time	Val
09/04/2020	10:40:00	0.413
09/04/2020	10:50:00	0.417
09/04/2020	11:00:00	0.514
09/04/2020	11:10:00	0.421
09/04/2020	11:20:00	0.373
09/04/2020	11:30:00	0.574
09/04/2020	11:40:00	0.489
09/04/2020	11:50:00	0.358
09/04/2020	12:00:00	0.466
09/04/2020	12:10:00	0.549
09/04/2020	12:20:00	0.384
09/04/2020	12:30:00	0.410
09/04/2020	12:40:00	0.389

Exceptions

Name	Date	Time	Duration	Duration Units	MIN	MAX	AVG	Units

Active Power P (kW)				
Name	AVG	MIN	MAX	Units
P1 (10 min)	5.127k	11.00	18.68k	W
P1+ (10 min)	5.127k	11.00	18.68k	W
P1- (10 min)	1.000	1.000	1.000	W
P2 (10 min)	5.119k	9.000	19.46k	W



09/04/2020 - 10:40:00

Value

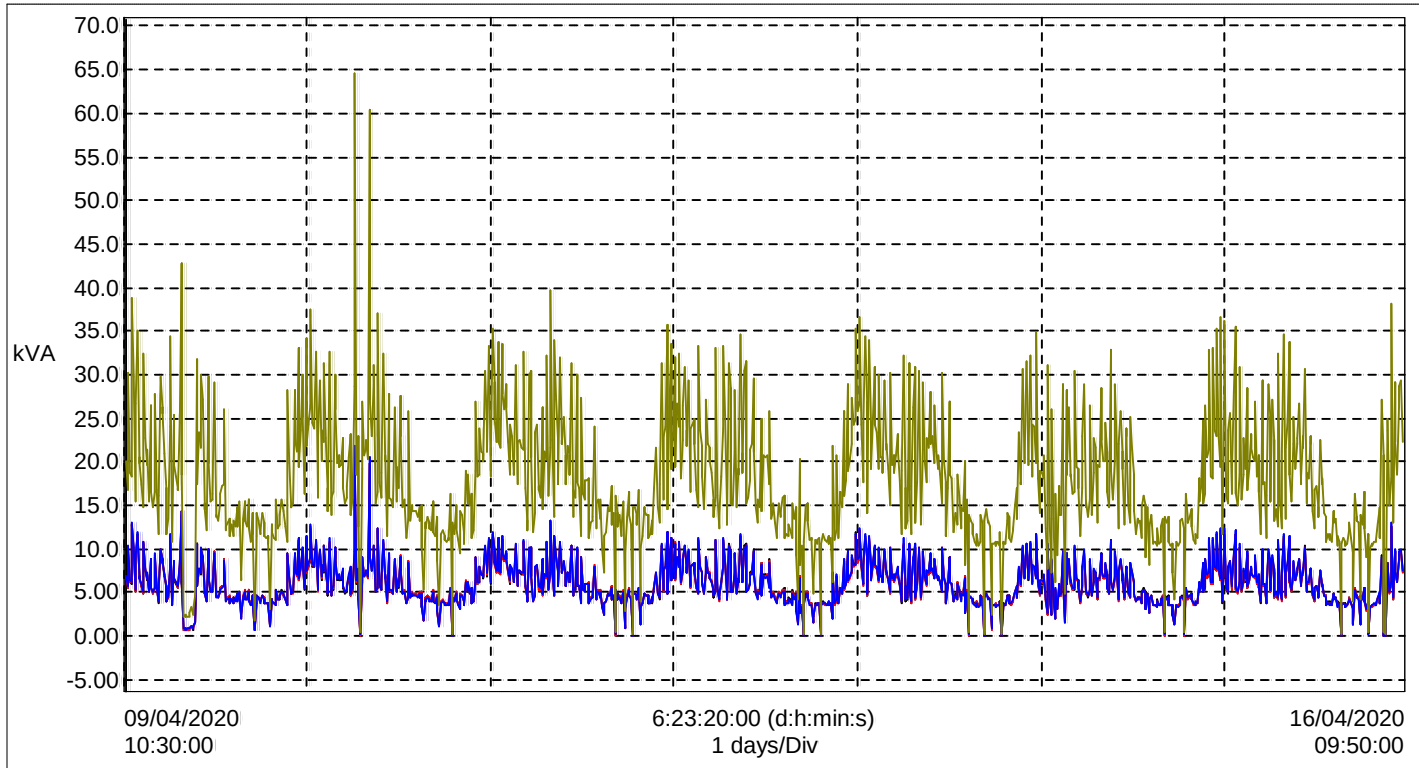
5.674k — P1 (10 min) (W)
5.905k — P2 (10 min) (W)
5.847k — P3 (10 min) (W)

P1 (10 min) (W)			
Date	Time	Val	Units
09/04/2020	10:40:00	5.674	kW
09/04/2020	10:50:00	4.790	kW
09/04/2020	11:00:00	8.537	kW
09/04/2020	11:10:00	5.303	kW
09/04/2020	11:20:00	5.132	kW
09/04/2020	11:30:00	11.14	kW
09/04/2020	11:40:00	8.456	kW
09/04/2020	11:50:00	4.376	kW
09/04/2020	12:00:00	7.649	kW
09/04/2020	12:10:00	10.09	kW
09/04/2020	12:20:00	5.921	kW
09/04/2020	12:30:00	5.716	kW
09/04/2020	12:40:00	4.914	kW

Exceptions

Name	Date	Time	Duration	Duration Units	MIN	MAX	AVG	Units

Apparent Power S (kVA)				
Name	AVG	MIN	MAX	Units
S1 (10 min)	5.951k	97.00	21.04k	VA
S2 (10 min)	5.955k	80.00	21.76k	VA
S3 (10 min)	6.007k	119.0	21.74k	VA
ST (10 min)	17.91k	316.0	64.53k	VA



09/04/2020 - 10:40:00

Value

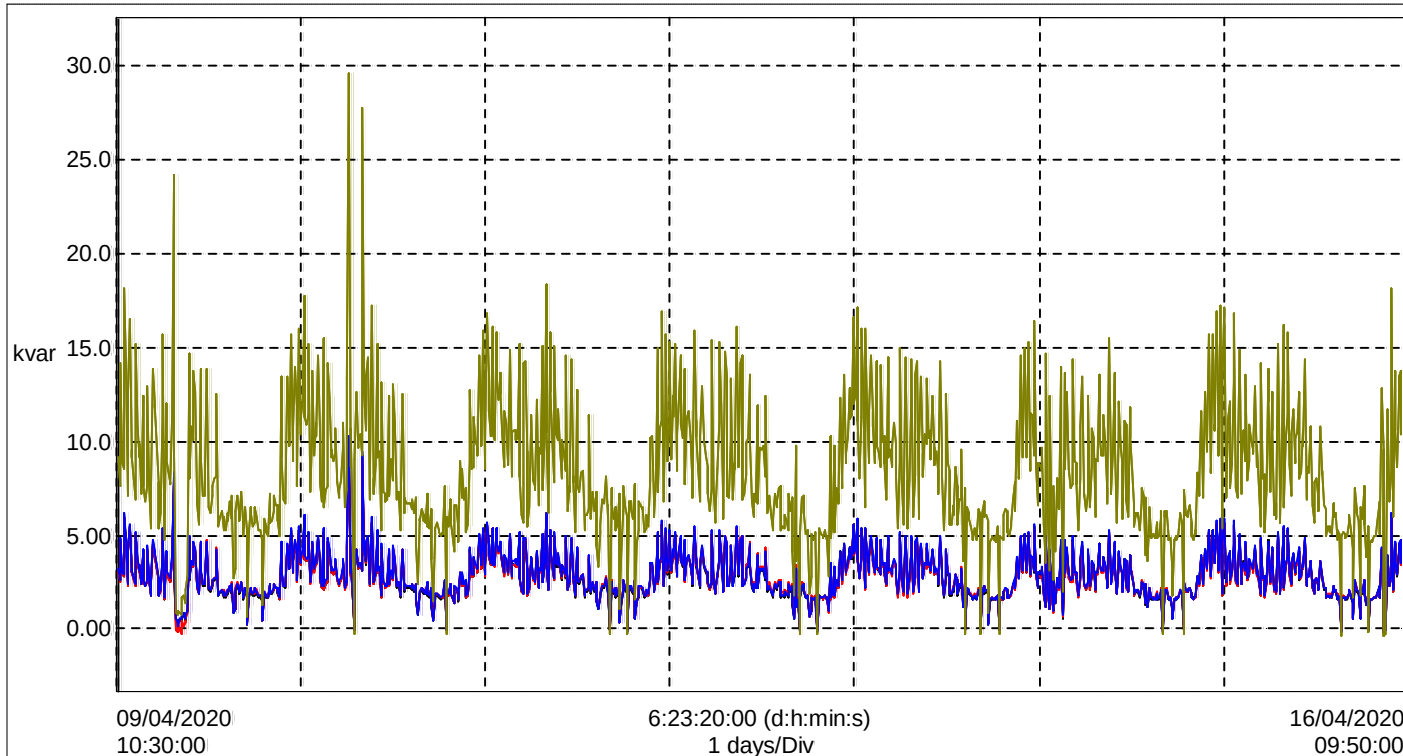
6.562k — S1 (10 min) (VA)
6.762k — S2 (10 min) (VA)
6.778k — S3 (10 min) (VA)

S1 (10 min) (VA)			
Date	Time	Val	Units
09/04/2020	10:40:00	6.562	kVA
09/04/2020	10:50:00	5.567	kVA
09/04/2020	11:00:00	9.866	kVA
09/04/2020	11:10:00	6.208	kVA
09/04/2020	11:20:00	5.978	kVA
09/04/2020	11:30:00	12.75	kVA
09/04/2020	11:40:00	9.762	kVA
09/04/2020	11:50:00	5.112	kVA
09/04/2020	12:00:00	8.845	kVA
09/04/2020	12:10:00	11.61	kVA
09/04/2020	12:20:00	6.834	kVA
09/04/2020	12:30:00	6.591	kVA
09/04/2020	12:40:00	5.721	kVA

Exceptions

Name	Date	Time	Duration	Duration Units	MIN	MAX	AVG	Units

Reactive Power Q (kvar)				
Name	AVG	MIN	MAX	Units
Q1 (10 min)	2.745k	-115.0	9.660k	var
Q1+ (10 min)	2.744k	-115.0	9.660k	var
Q1- (10 min)	12.16	7.000	18.00	var
Q2 (10 min)	2.763k	-276.0	9.713k	var



09/04/2020 - 10:40:00

Value

3.004k — Q1 (10 min) (var)

2.987k — Q2 (10 min) (var)

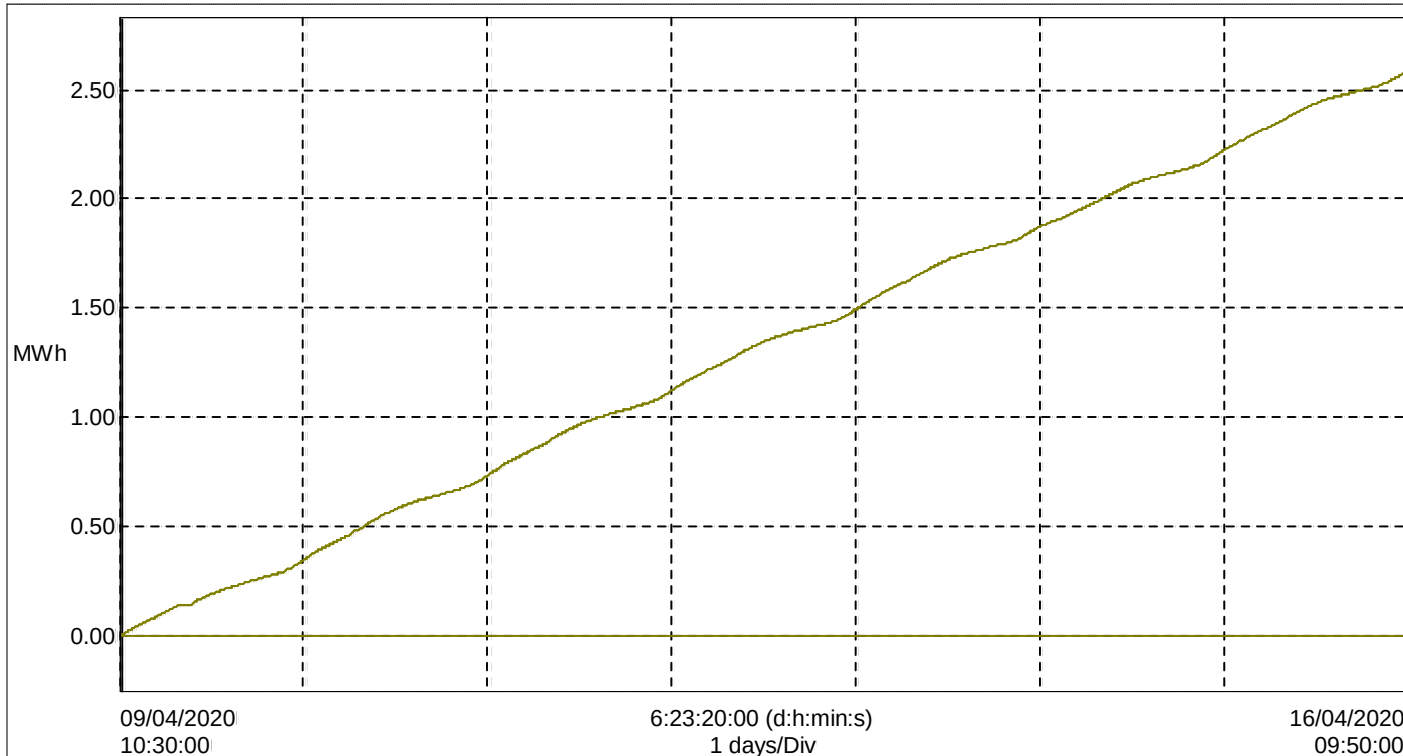
3.170k — Q3 (10 min) (var)

Q1 (10 min) (var)			
Date	Time	Val	Units
09/04/2020	10:40:00	3.004	kvar
09/04/2020	10:50:00	2.572	kvar
09/04/2020	11:00:00	4.707	kvar
09/04/2020	11:10:00	2.933	kvar
09/04/2020	11:20:00	2.796	kvar
09/04/2020	11:30:00	5.983	kvar
09/04/2020	11:40:00	4.608	kvar
09/04/2020	11:50:00	2.361	kvar
09/04/2020	12:00:00	4.186	kvar
09/04/2020	12:10:00	5.493	kvar
09/04/2020	12:20:00	3.152	kvar
09/04/2020	12:30:00	3.012	kvar
09/04/2020	12:40:00	2.657	kvar

Exceptions

Name	Date	Time	Duration	Duration Units	MIN	MAX	AVG	Units

Active Energy Ep (kWh)			
Name	MIN	MAX	Units
Ep (Wh) (10 min)	-0.0	2.574M	Wh
Ep+ (Wh) (10 min)	-0.0	2.574M	Wh
Ep- (Wh) (10 min)	-0.0	-0.0	Wh



09/04/2020 - 10:30:00

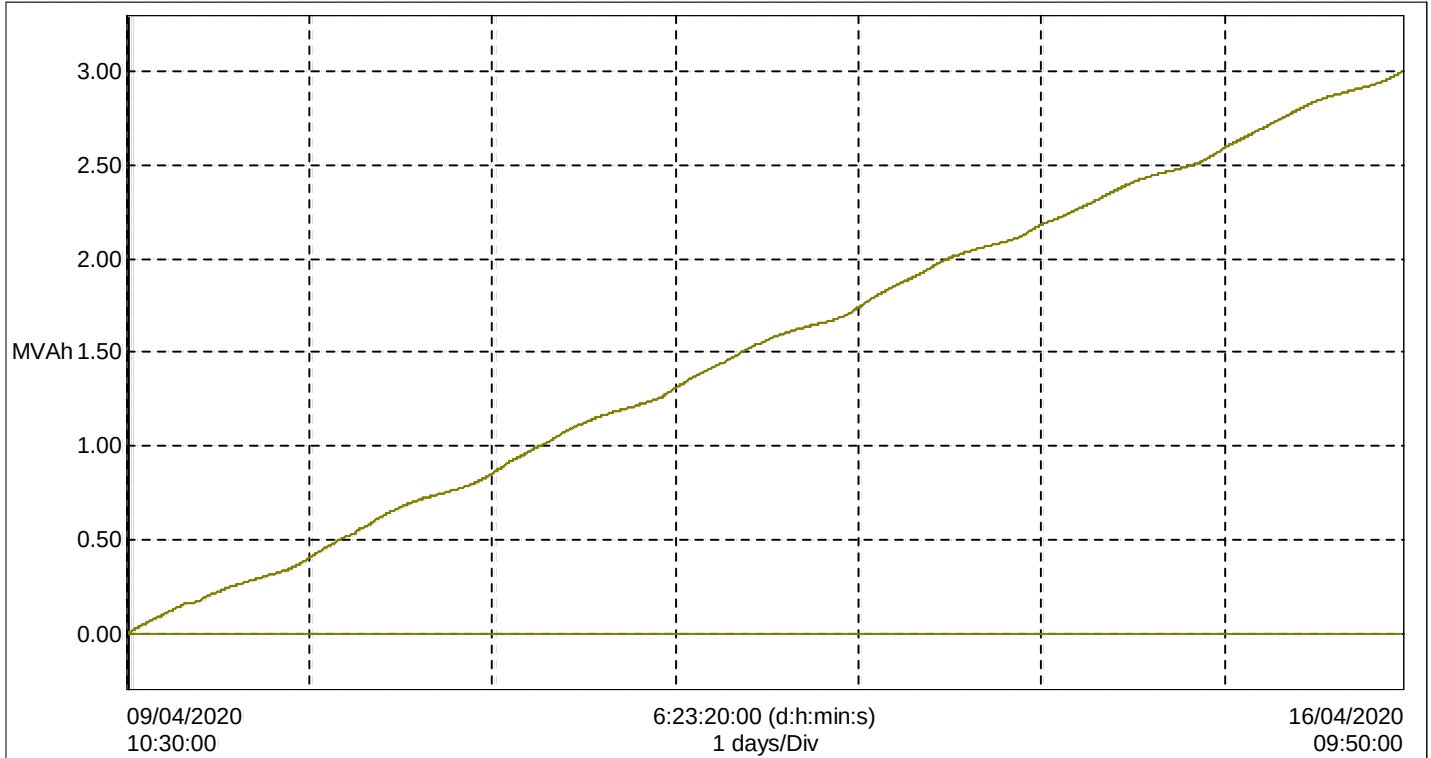
Value

0.0 — Ep (Wh) (10 min) (Wh)
0.0 — Ep+ (Wh) (10 min) (Wh)
0.0 — Ep- (Wh) (10 min) (Wh)

Ep (Wh) (10 min) (Wh)			
Date	Time	Val	Units
09/04/2020	10:30:00	0.0	Wh
09/04/2020	10:40:00	2.904	kWh
09/04/2020	10:50:00	5.313	kWh
09/04/2020	11:00:00	9.702	kWh
09/04/2020	11:10:00	12.38	kWh
09/04/2020	11:20:00	15.02	kWh
09/04/2020	11:30:00	20.66	kWh
09/04/2020	11:40:00	24.96	kWh
09/04/2020	11:50:00	27.17	kWh
09/04/2020	12:00:00	31.02	kWh
09/04/2020	12:10:00	36.09	kWh
09/04/2020	12:20:00	39.06	kWh
09/04/2020	12:30:00	41.92	kWh
09/04/2020	12:40:00	44.40	kWh
09/04/2020	12:50:00	46.51	kWh
09/04/2020	13:00:00	51.19	kWh
09/04/2020	13:10:00	54.46	kWh
09/04/2020	13:20:00	57.27	kWh
09/04/2020	13:30:00	60.36	kWh
09/04/2020	13:40:00	62.55	kWh

Apparent Energy Es (kVAh)

Name	MIN	MAX	Units
Es (VAh) (10 min)	-0.0	2.998M	VAh
Es+ (VAh) (10 min)	-0.0	2.998M	VAh
Es- (VAh) (10 min)	-0.0	-0.0	VAh



09/04/2020 - 10:30:00

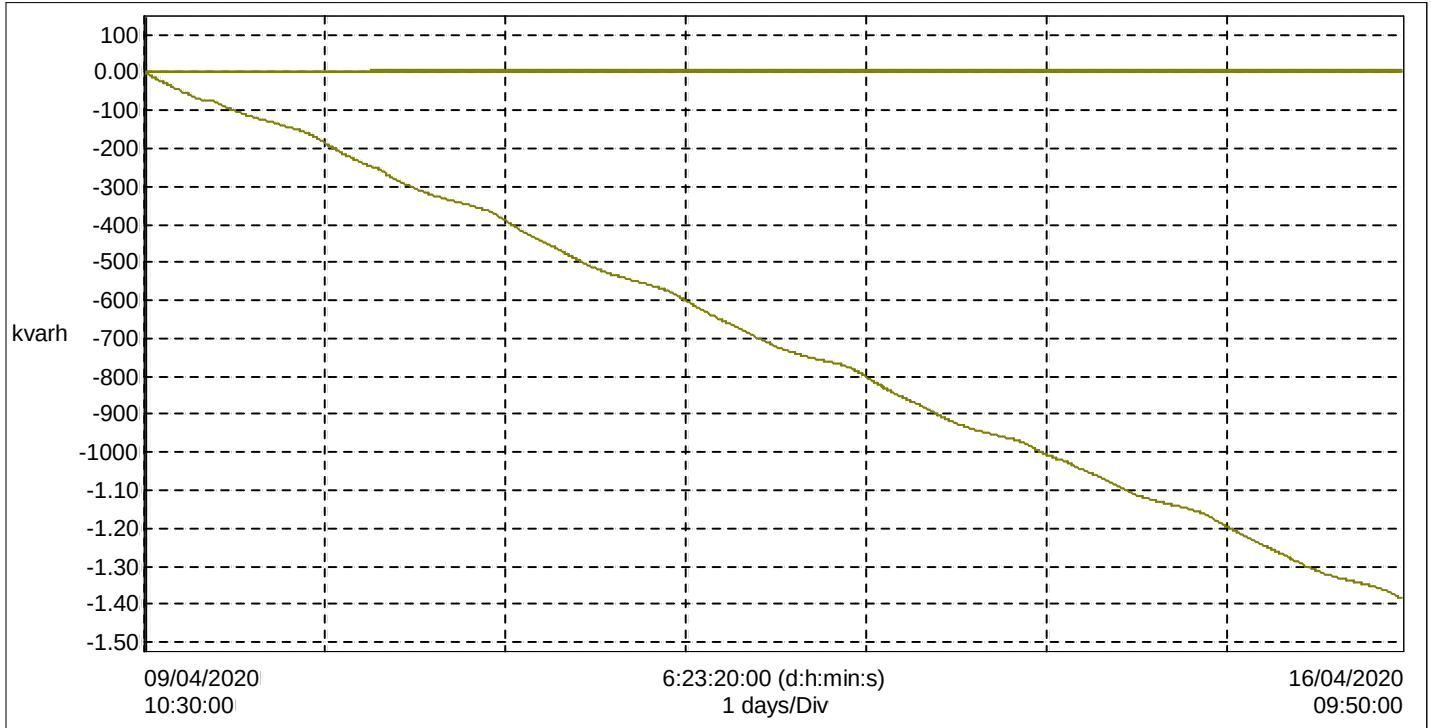
Value

0.0 — Es (VAh) (10 min) (VAh)
 0.0 — Es+ (VAh) (10 min) (VAh)
 0.0 — Es- (VAh) (10 min) (VAh)

Es (VAh) (10 min) (VAh)			
Date	Time	Val	Units
09/04/2020	10:30:00	0.0	VAh
09/04/2020	10:40:00	3.350	kVAh
09/04/2020	10:50:00	6.148	kVAh
09/04/2020	11:00:00	11.19	kVAh
09/04/2020	11:10:00	14.33	kVAh
09/04/2020	11:20:00	17.39	kVAh
09/04/2020	11:30:00	23.85	kVAh
09/04/2020	11:40:00	28.80	kVAh
09/04/2020	11:50:00	31.38	kVAh
09/04/2020	12:00:00	35.83	kVAh
09/04/2020	12:10:00	41.67	kVAh
09/04/2020	12:20:00	45.10	kVAh
09/04/2020	12:30:00	48.41	kVAh
09/04/2020	12:40:00	51.30	kVAh
09/04/2020	12:50:00	53.77	kVAh
09/04/2020	13:00:00	59.16	kVAh
09/04/2020	13:10:00	62.96	kVAh
09/04/2020	13:20:00	66.23	kVAh
09/04/2020	13:30:00	69.79	kVAh
09/04/2020	13:40:00	72.37	kVAh

Reactive Energy Eq (kvarh)

Name	MIN	MAX	Units
Eq/q1 (varh) (10 min)	-0.0	8.976k	varh
Eq/q2 (varh) (10 min)	-0.0	-0.0	varh
Eq/q3 (varh) (10 min)	-0.0	-0.0	varh
Eq/q4 (varh) (10 min)	-1.385M	-0.0	varh



09/04/2020 - 10:30:00

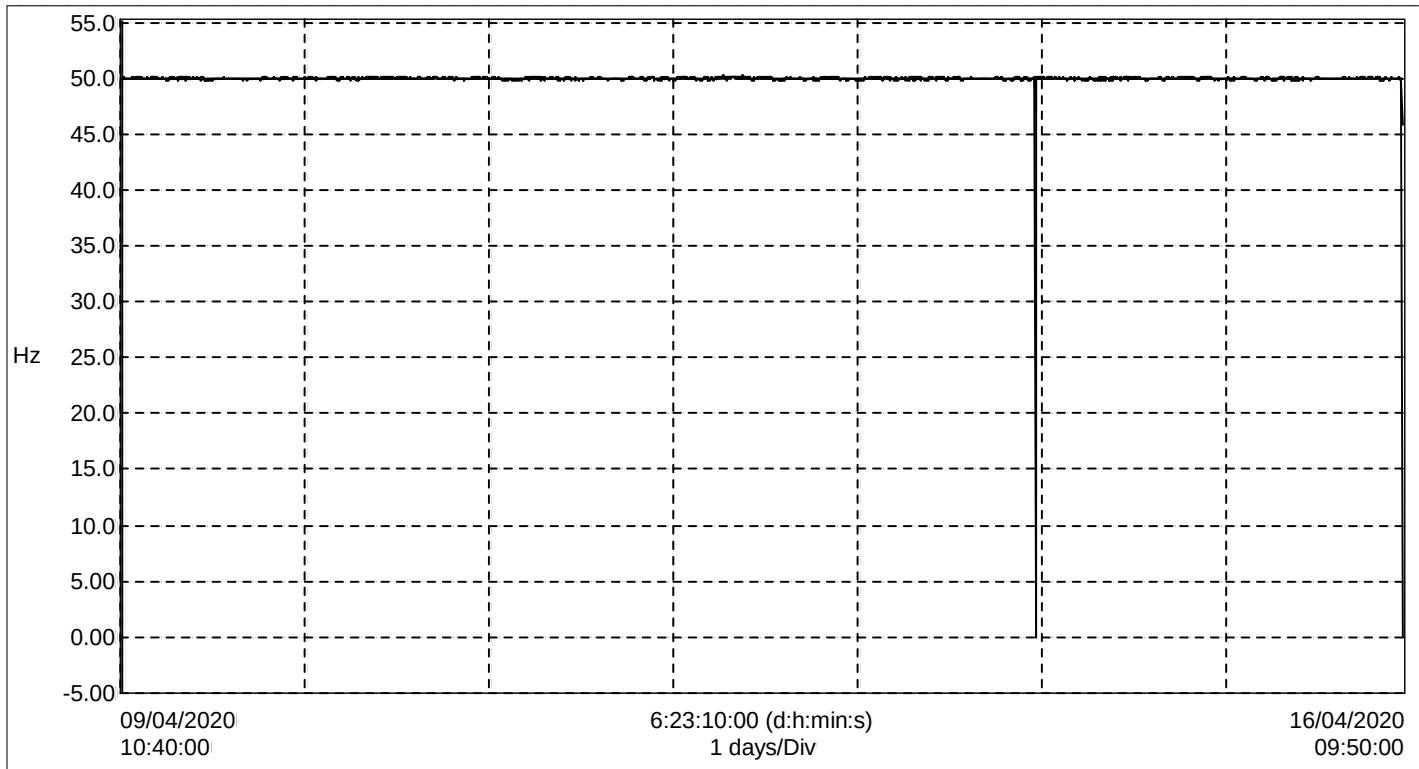
Value

0.0 — Eq/q1 (varh) (10 min) (varh)
 0.0 — Eq/q2 (varh) (10 min) (varh)
 0.0 — Eq/q3 (varh) (10 min) (varh)
 0.0 — Eq/q4 (varh) (10 min) (varh)

Eq/q1 (varh) (10 min) (varh)

Date	Time	Val	Units
09/04/2020	10:30:00	0.0	varh
09/04/2020	10:40:00	0.0	varh
09/04/2020	10:50:00	0.0	varh
09/04/2020	11:00:00	0.0	varh
09/04/2020	11:10:00	0.0	varh
09/04/2020	11:20:00	0.0	varh
09/04/2020	11:30:00	0.0	varh
09/04/2020	11:40:00	0.0	varh
09/04/2020	11:50:00	0.0	varh
09/04/2020	12:00:00	0.0	varh
09/04/2020	12:10:00	0.0	varh
09/04/2020	12:20:00	0.0	varh
09/04/2020	12:30:00	0.0	varh
09/04/2020	12:40:00	0.0	varh
09/04/2020	12:50:00	0.0	varh
09/04/2020	13:00:00	0.0	varh
09/04/2020	13:10:00	0.0	varh
09/04/2020	13:20:00	0.0	varh
09/04/2020	13:30:00	0.0	varh
09/04/2020	13:40:00	0.0	varh

F (Hz)								
Name	AVG	MIN	MIN date	MIN time	MAX	MAX date	MAX time	Units
F (Hz) (10 min)	49.99	-0.0	14/04/2020	09:57:02	50.28	12/04/2020	19:46:08	Hz

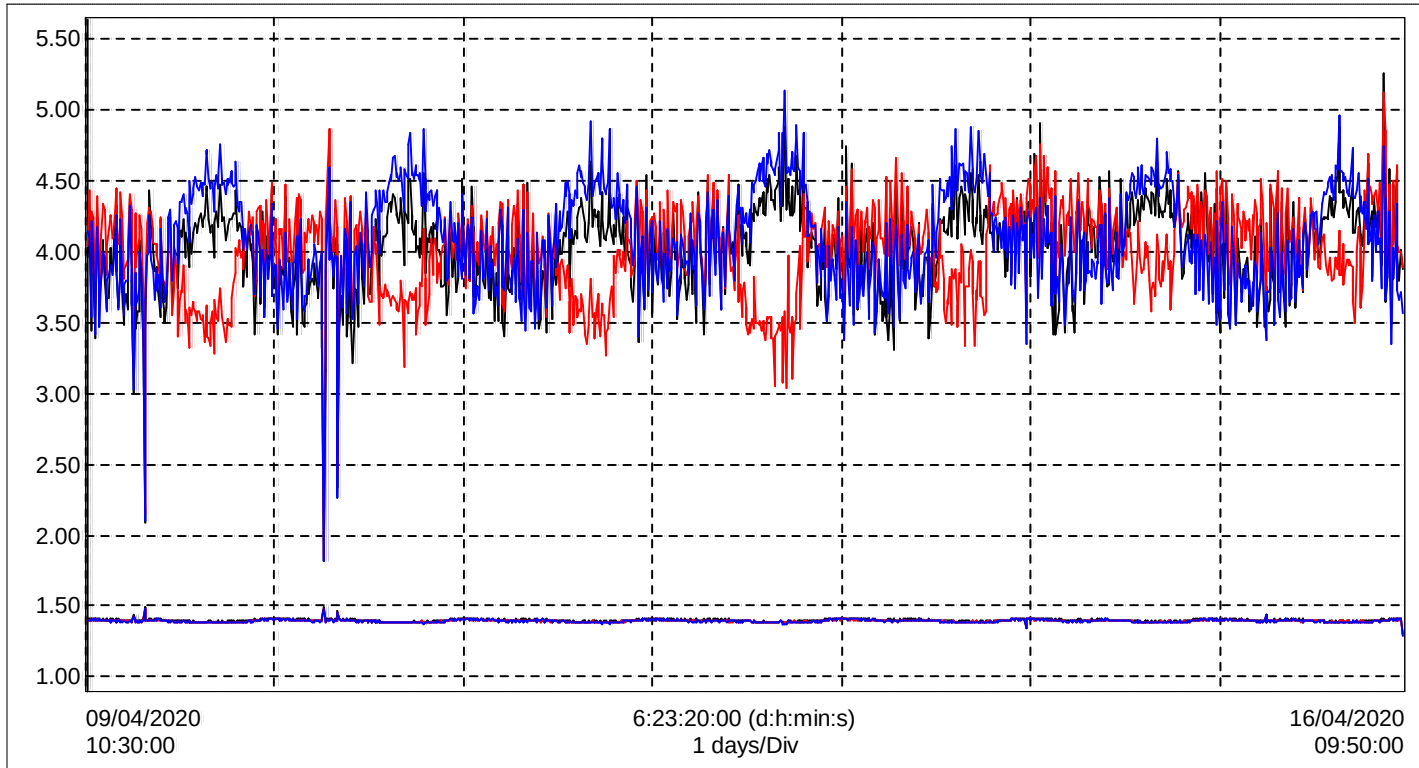


09/04/2020 - 10:40:00
Value
49.98 — F (Hz) (10 min) (Hz)

F (Hz) (10 min) (Hz)		
Date	Time	Val
09/04/2020	10:40:00	50.05
09/04/2020	10:50:00	50.05
09/04/2020	11:00:00	50.01
09/04/2020	11:10:00	49.96
09/04/2020	11:20:00	49.96
09/04/2020	11:30:00	49.95
09/04/2020	11:40:00	49.94
09/04/2020	11:50:00	49.95
09/04/2020	12:00:00	49.95
09/04/2020	12:10:00	50.04
09/04/2020	12:20:00	50.06
09/04/2020	12:30:00	49.99
09/04/2020	12:40:00	50.04

Exceptions								
Name	Date	Time	Duration	Duration Units	MIN	MAX	AVG	Units

CF				
Name	AVG	MIN	MAX	Units
I1-CF (10 min)	4.027	1.819	5.257	
I2-CF (10 min)	3.992	1.830	5.130	
I3-CF (10 min)	4.098	1.819	5.138	
V1-CF (10 min)	1.399	1.298	1.498	



09/04/2020 - 10:40:00

Value

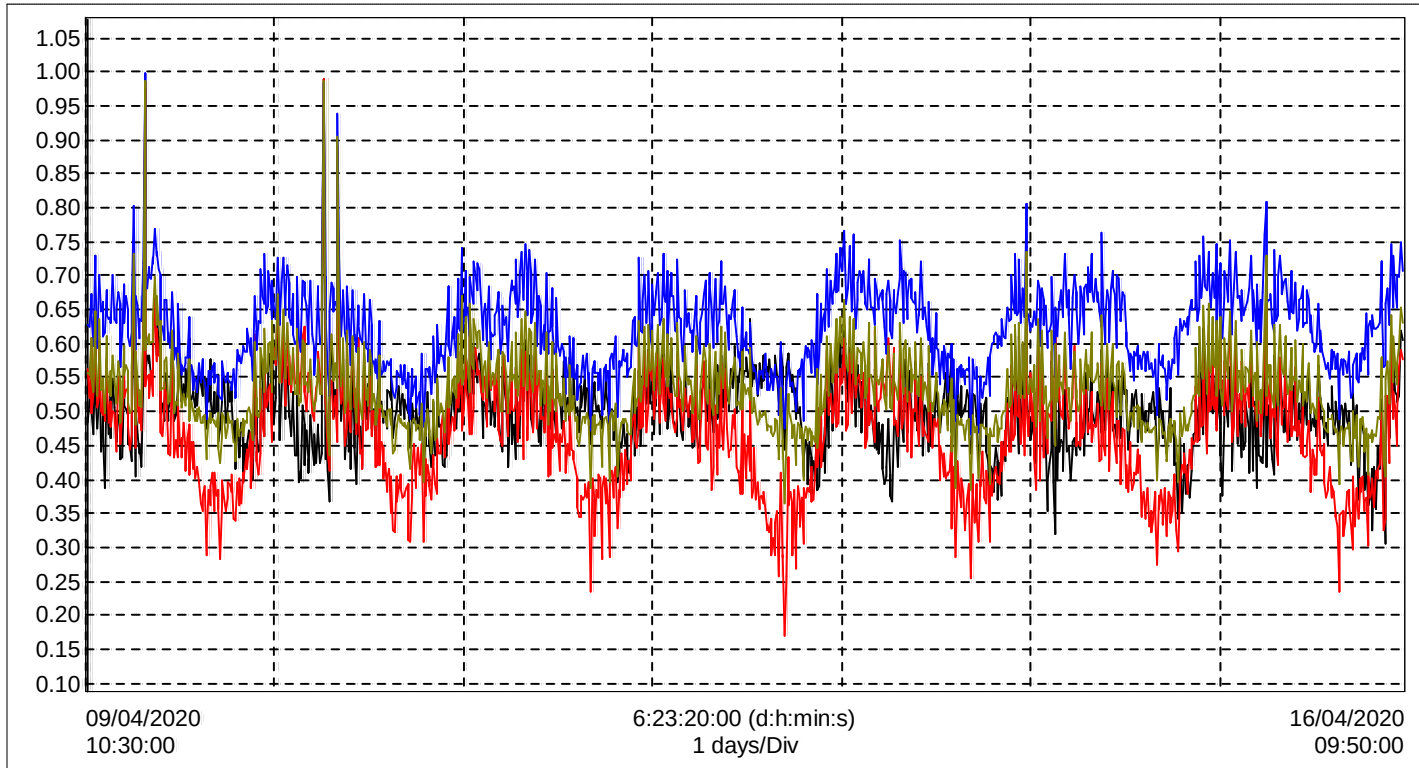
1.409 — V1-CF (10 min) ()
1.403 — V2-CF (10 min) ()
1.404 — V3-CF (10 min) ()

I1-CF (10 min) ()		
Date	Time	Val
09/04/2020	10:40:00	3.959
09/04/2020	10:50:00	4.241
09/04/2020	11:00:00	3.450
09/04/2020	11:10:00	4.277
09/04/2020	11:20:00	3.807
09/04/2020	11:30:00	3.389
09/04/2020	11:40:00	3.474
09/04/2020	11:50:00	4.249
09/04/2020	12:00:00	3.784
09/04/2020	12:10:00	3.639
09/04/2020	12:20:00	3.822
09/04/2020	12:30:00	4.084
09/04/2020	12:40:00	4.029

Exceptions

Name	Date	Time	Duration	Duration Units	MIN	MAX	AVG Units

Cos ϕ (DPF)				
Name	AVG	MIN	MAX	Units
Cos ϕ 1+ (10 min)	0.500	0.305	0.989	
Cos ϕ 1- (10 min)	---	NA	NA	
Cos ϕ 2+ (10 min)	0.465	0.171	0.991	
Cos ϕ 2- (10 min)	---	NA	NA	



09/04/2020 - 10:40:00

Value

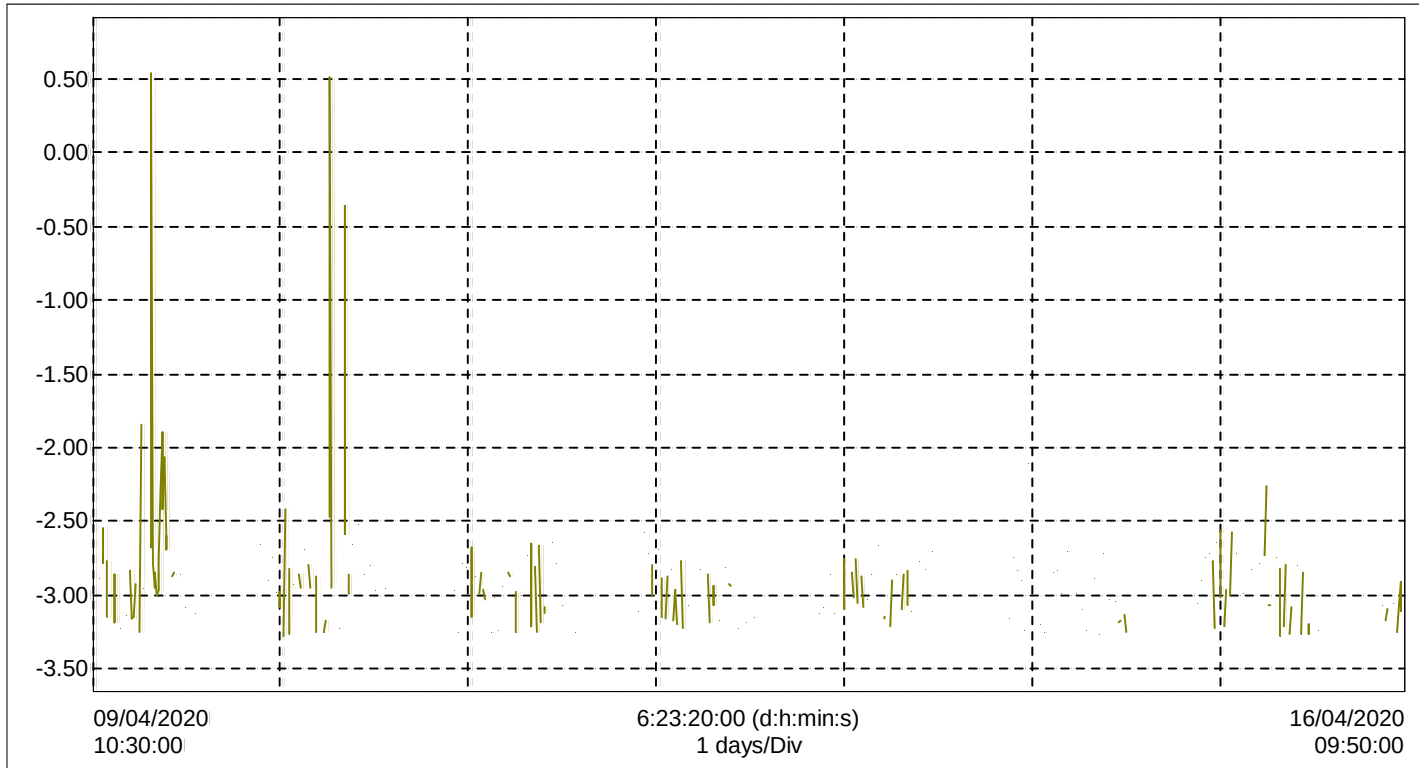
X.XX — Cos ϕ 1- (10 min) ()
X.XX — Cos ϕ 2- (10 min) ()
X.XX — Cos ϕ 3- (10 min) ()

Cos ϕ 1+ (10 min) ()		
Date	Time	Val
09/04/2020	10:40:00	0.484
09/04/2020	10:50:00	0.516
09/04/2020	11:00:00	0.542
09/04/2020	11:10:00	0.501
09/04/2020	11:20:00	0.468
09/04/2020	11:30:00	0.604
09/04/2020	11:40:00	0.531
09/04/2020	11:50:00	0.474
09/04/2020	12:00:00	0.524
09/04/2020	12:10:00	0.602
09/04/2020	12:20:00	0.442
09/04/2020	12:30:00	0.495
09/04/2020	12:40:00	0.468

Exceptions

Name	Date	Time	Duration	Duration Units	MIN	MAX	AVG

Tan Φ				
Name	AVG	MIN	MAX	Units
Tan Φ + (10 min)	-2.889	-3.274	0.536	
Tan Φ - (10 min)	---	NA	NA	



09/04/2020 - 10:15:12.813

Value

X.XX — Tan Φ - (10 min) ()

X.XX — Tan Φ + (10 min) ()

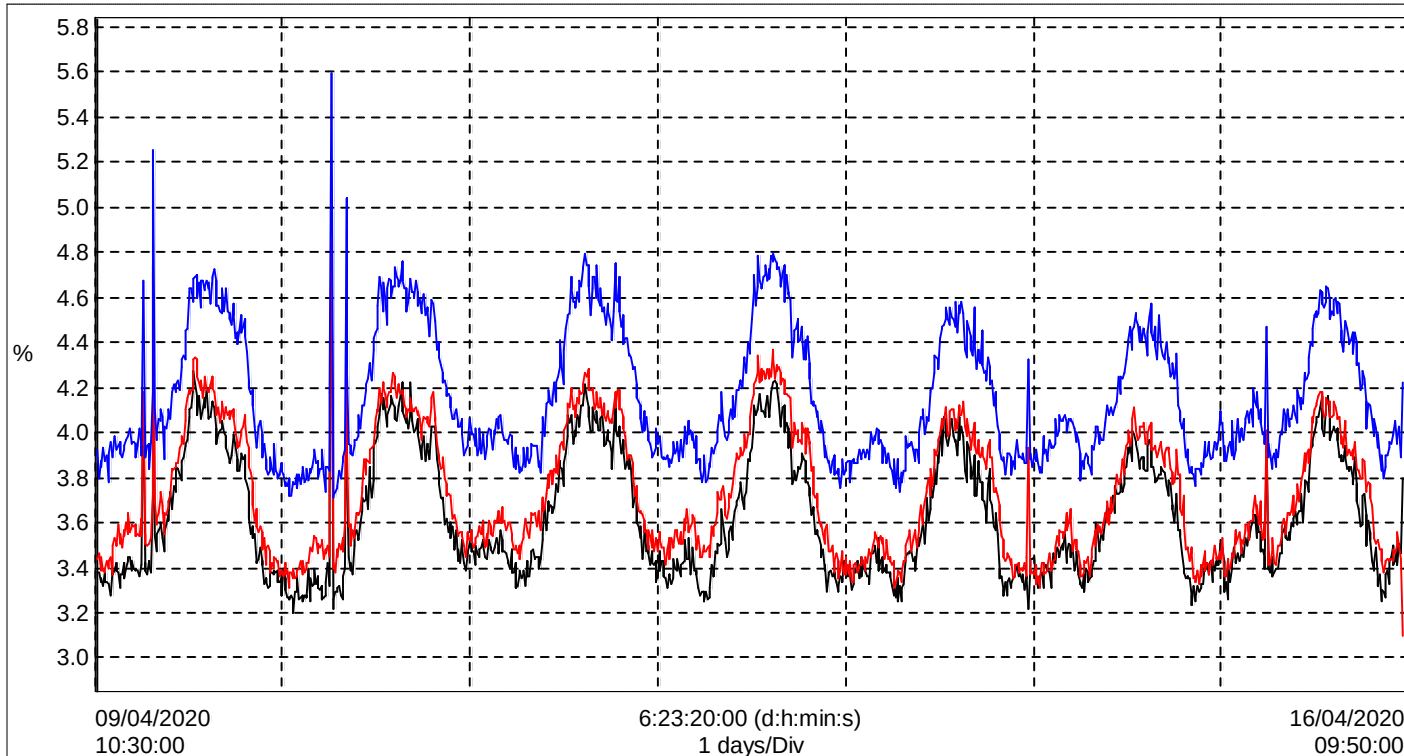
Tan Φ + (10 min) ()		
Date	Time	Val
09/04/2020	11:00:00	-2.880
09/04/2020	11:30:00	-2.552
09/04/2020	11:40:00	-2.780
09/04/2020	12:00:00	-3.151
09/04/2020	12:10:00	-2.770
09/04/2020	13:00:00	-2.860
09/04/2020	13:10:00	-3.190
09/04/2020	13:50:00	-3.219
09/04/2020	14:30:00	-3.139
09/04/2020	15:10:00	-2.828
09/04/2020	15:20:00	-3.158
09/04/2020	15:30:00	-3.142
09/04/2020	15:40:00	-2.919

Exceptions

Name	Date	Time	Duration	Duration Units	MIN	MAX	AVG	Units

Phase-to-Neutral Total Harmonic Distortion

Name	AVG	MIN	MIN date	MIN time	MAX	MAX date	MAX time	Units
V1-THD (10 min)	3.630	3.200	10/04/2020	11:50:00	4.980	10/04/2020	16:40:00	%
V2-THD (10 min)	3.731	3.100	16/04/2020	09:50:00	4.880	10/04/2020	16:40:00	%
V3-THD (10 min)	4.158	3.710	10/04/2020	16:50:00	5.590	10/04/2020	16:40:00	%



09/04/2020 - 10:40:00

Value

3.380 — V1-THD (10 min) (%)
 3.440 — V2-THD (10 min) (%)
 3.920 — V3-THD (10 min) (%)

V1-THD (10 min) (%)

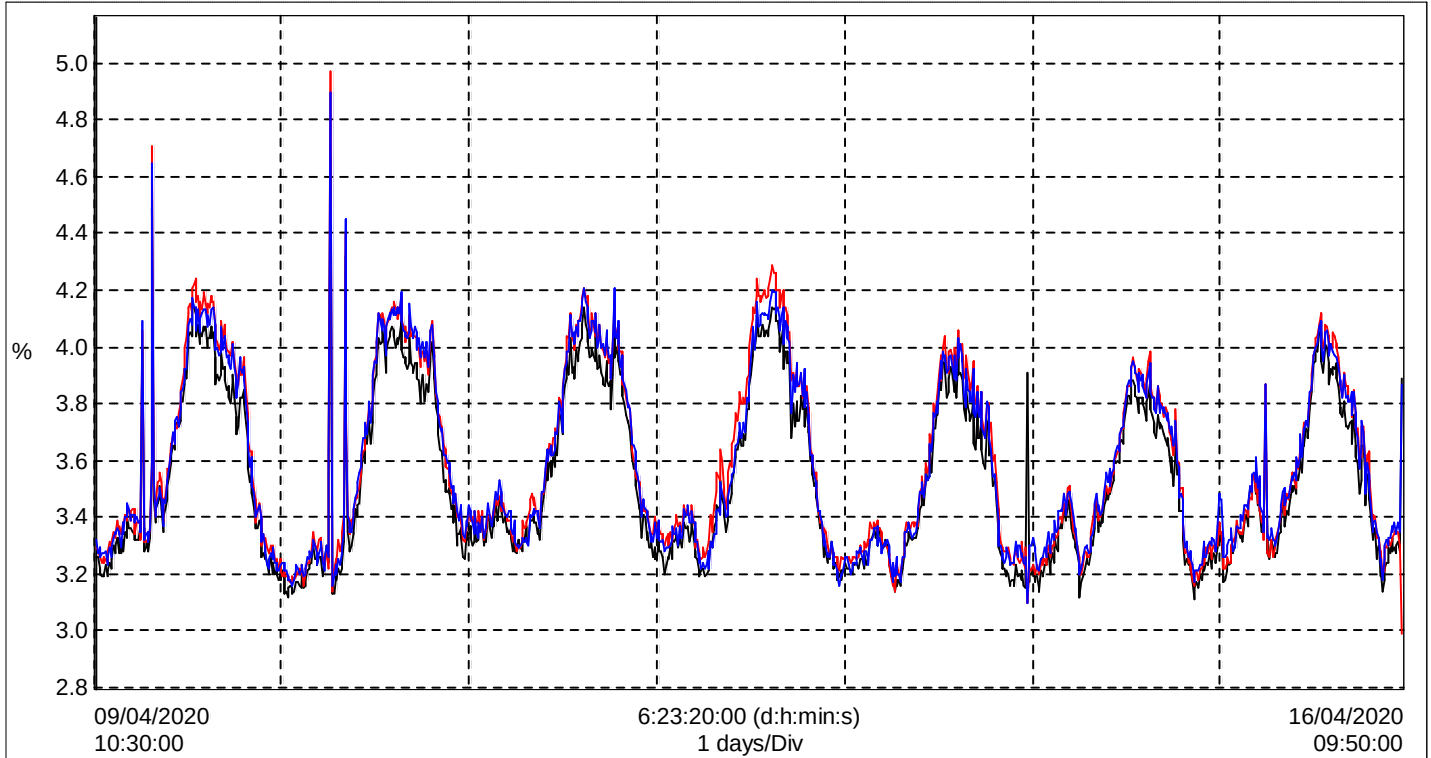
Date	Time	Val	Units
09/04/2020	10:40:00	3.380	%
09/04/2020	10:50:00	3.380	%
09/04/2020	11:00:00	3.340	%
09/04/2020	11:10:00	3.350	%
09/04/2020	11:20:00	3.320	%
09/04/2020	11:30:00	3.380	%
09/04/2020	11:40:00	3.340	%
09/04/2020	11:50:00	3.340	%
09/04/2020	12:00:00	3.330	%
09/04/2020	12:10:00	3.330	%
09/04/2020	12:20:00	3.280	%
09/04/2020	12:30:00	3.390	%
09/04/2020	12:40:00	3.370	%

Exceptions

Name	Date	Time	Duration	Duration Units	MIN	MAX	AVG	Units

Phase-to-Phase Total Harmonic Distortion

Name	AVG	MIN	MIN date	MIN time	MAX	MAX date	MAX time	Units
U12-THD (10 min)	3.529	3.110	15/04/2020	07:20:00	4.670	10/04/2020	16:40:00	%
U23-THD (10 min)	3.591	2.990	16/04/2020	09:50:00	4.970	10/04/2020	16:40:00	%
U31-THD (10 min)	3.582	3.100	14/04/2020	10:00:00	4.900	10/04/2020	16:40:00	%



09/04/2020 - 10:40:00

Value

3.260 — U12-THD (10 min) (%)
 3.290 — U23-THD (10 min) (%)
 3.320 — U31-THD (10 min) (%)

U12-THD (10 min) (%)

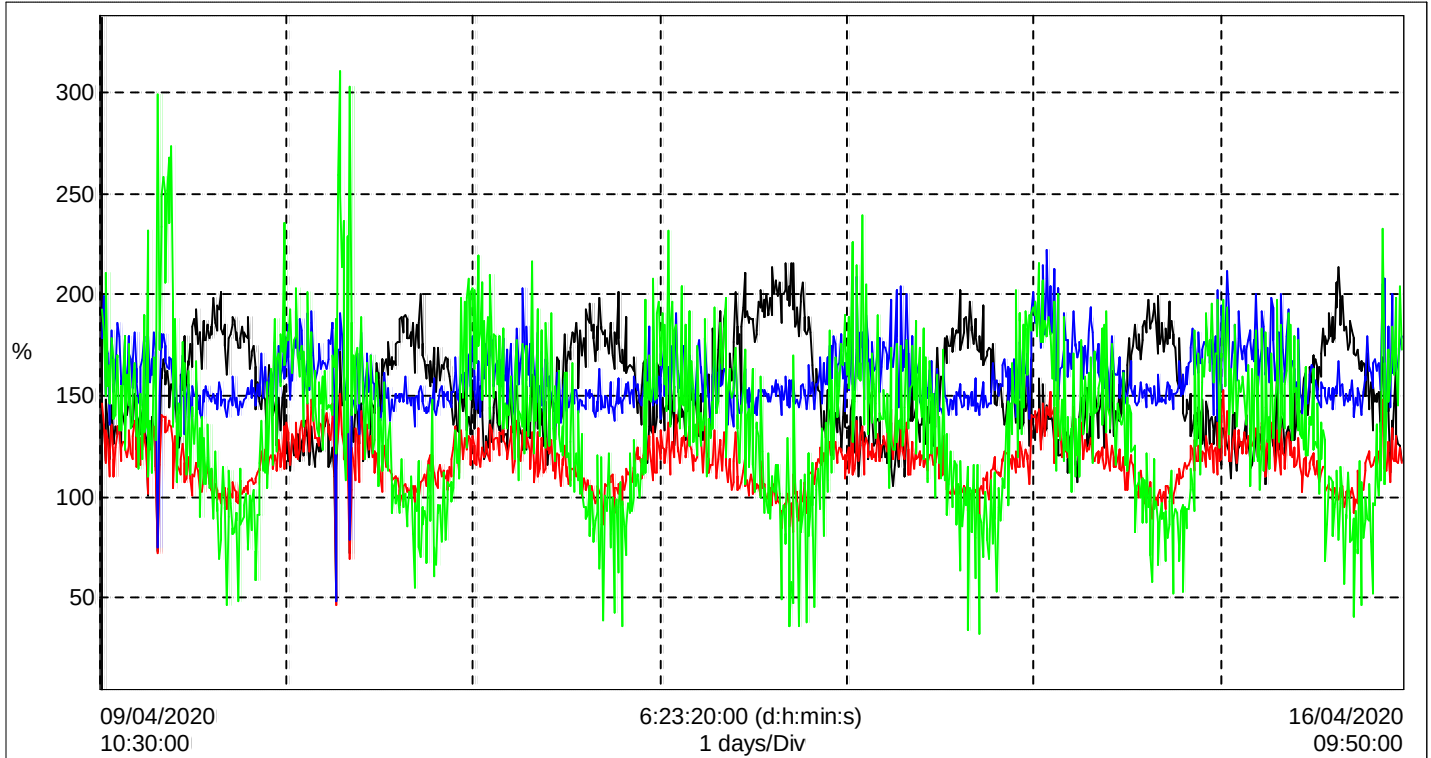
Date	Time	Val	Units
09/04/2020	10:40:00	3.260	%
09/04/2020	10:50:00	3.260	%
09/04/2020	11:00:00	3.220	%
09/04/2020	11:10:00	3.200	%
09/04/2020	11:20:00	3.190	%
09/04/2020	11:30:00	3.190	%
09/04/2020	11:40:00	3.200	%
09/04/2020	11:50:00	3.230	%
09/04/2020	12:00:00	3.190	%
09/04/2020	12:10:00	3.210	%
09/04/2020	12:20:00	3.240	%
09/04/2020	12:30:00	3.220	%
09/04/2020	12:40:00	3.250	%

Exceptions

Name	Date	Time	Duration	Duration Units	MIN	MAX	AVG	Units

Current Total Harmonic Distortion

Name	AVG	MIN	MIN date	MIN time	MAX	MAX date	MAX time	Units
I1-THD (10 min)	152.6	48.11	10/04/2020	16:40:00	215.7	13/04/2020	03:40:00	%
I2-THD (10 min)	117.0	46.96	10/04/2020	16:40:00	154.1	14/04/2020	13:40:00	%
I3-THD (10 min)	158.9	48.61	10/04/2020	16:40:00	222.4	14/04/2020	12:20:00	%
IN-THD (10 min)	134.8	32.56	14/04/2020	03:30:00	310.0	10/04/2020	17:10:00	%



09/04/2020 - 10:40:00

Value

130.5 — I1-THD (10 min) (%)
 146.0 — I2-THD (10 min) (%)
 178.4 — I3-THD (10 min) (%)

I1-THD (10 min) (%)			
Date	Time	Val	Units
09/04/2020	10:40:00	130.5	%
09/04/2020	10:50:00	135.5	%
09/04/2020	11:00:00	117.4	%
09/04/2020	11:10:00	148.1	%
09/04/2020	11:20:00	136.6	%
09/04/2020	11:30:00	118.9	%
09/04/2020	11:40:00	119.6	%
09/04/2020	11:50:00	145.1	%
09/04/2020	12:00:00	127.9	%
09/04/2020	12:10:00	125.8	%
09/04/2020	12:20:00	135.0	%
09/04/2020	12:30:00	131.1	%
09/04/2020	12:40:00	134.8	%

Exceptions

Name	Date	Time	Duration	Duration Units	MIN	MAX	AVG	Units

[illegible]

Configuration

Database File Name	Test Record_4.dvb
Session name	Test Record
Recording start	09/04/2020 10:22:00
Recording end	16/04/2020 09:50:36
Recording duration	6 days, 23:28:36 (h:min:s)
1 s trend	Yes
1 s harmonics	No
PEL model	PEL103
PEL serial number	108684TAH
PEL name	PEL103-108684TAH
PEL location	Office
Firmware DSP version	1.26
Firmware microprocessor version	1.20
Hardware version	D.D
Aggregation period	10 min
Electrical hook-up	3-phase 4-wire Y
Nominal frequency	Auto
Primary nominal voltage	- - -
Secondary nominal voltage	- - -
Current sensor I1	MA193/MA194/A193/A196
Current sensor I2	MA193/MA194/A193/A196
Current sensor I3	MA193/MA194/A193/A196
Line flexible sensor range	400 A
Line flexible sensor wraps	1

Glossary of terms

---	- Indicates a value that cannot be calculated
V Φ -N	- Indicates the phase to neutral voltages
V Φ - Φ	- Indicates the phase to phase voltages
F	- Frequency
V	- Voltage
U	- Phase-to-phase Voltage
I	- Current
P	- Active Power
Q	- Reactive Power
S	- Apparent Power
PF	- Power Factor
Tan Φ	- Ratio between Reactive and Active Power
Ep	- Active Energy
Eq	- Reactive Energy
Es	- Apparent Energy
THD	- Total Harmonic Distortion