

Correlation report for pm10 (raw) measurements: sensor type dylos@BdP_8d5ba45f

with sds011@BdP_3f18c330

Correlation details of project BdP sensor kit ID 8d5ba45f with project BdP sensor kit ID 3f18c330

Date of correlation report: do aug 3 16:56:05 CEST 2017

From date 2017-07-30 upto 2017-08-03 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): sds011, dylos

Graphs based on data INFLUX from influxdb on server localhost as user teus:

Database table BdP_8d5ba45f sensor (column) pm10: 384 db records, deleted 0 NaN records.

Database table BdP_3f18c330 sensor (column) pm10: 384 db records, deleted 0 NaN records.

Collected 384 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 03 2017 00:00, interval timing 15m:0s.

Data from table/sheet BdP_3f18c330, sensor (column) pm10:

number 384, min= 4.00, max=37.43

avg=10.61, std dev= 4.89

R-squared (R^2) with BdP_3f18c330/pm10: 0.6469

Best fit linear single polynomial regression curve ($A_0 \cdot X^0 + A_1 \cdot X^1$):

BdP_8d5ba45f/pm10 (sds011)-> best fit coefficients:

-1.984e+01, 7.077e+00

Statistical summary linear regression for BdP_8d5ba45f/pm10
with ['BdP_3f18c330/pm10']:

OLS Regression Results

| Dep. Variable: | BdP_8d5ba45f/pm10 | R-squared: | 0.647 |
|-------------------|-------------------|---------------------|----------|
| Model: | OLS | Adj. R-squared: | 0.646 |
| Method: | Least Squares | F-statistic: | 699.9 |
| Date: | Thu, 03 Aug 2017 | Prob (F-statistic): | 2.25e-88 |
| Time: | 16:56:05 | Log-Likelihood: | -1789.5 |
| No. Observations: | 384 | AIC: | 3583. |
| Df Residuals: | 382 | BIC: | 3591. |
| Df Model: | 1 | | |

coef std err t P>|t| [95.0% Conf. Int.]

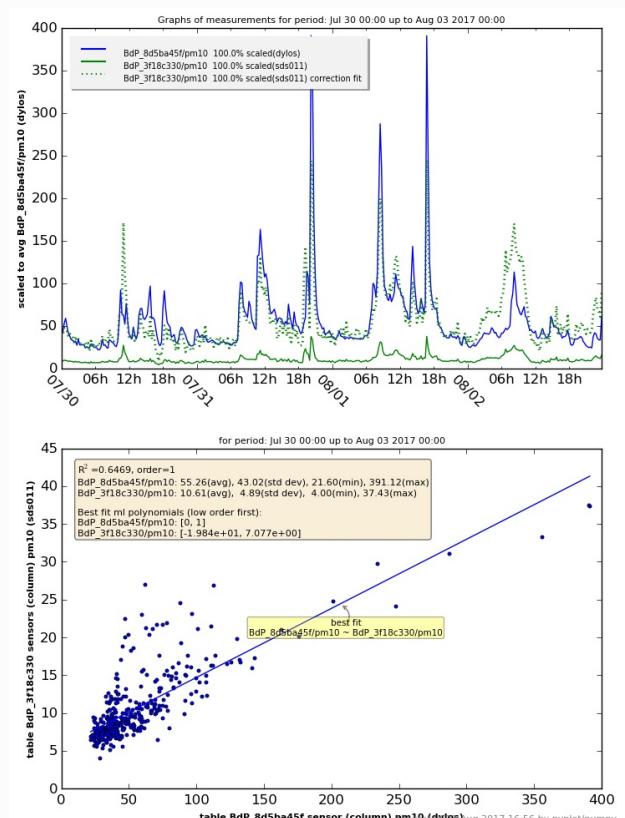
BdP_3f18c330/pm10 -19.8439 3.126 -6.348 0.000 -25.990 -13.698

Omnibus: 109.212 Durbin-Watson: 0.464

Prob(Omnibus): 0.000 Jarque-Bera (JB): 1461.632

Skew: 0.783 Prob(JB): 0.00

Kurtosis: 12.429 Cond. No. 28.1



Correlation report for pm10 (raw) measurements: sensor type dylos@BdP_8d5ba45f

with ppd42ns@BdP_3f18c330

Correlation details of project BdP sensor kit ID 8d5ba45f with project BdP sensor kit ID 3f18c330

Date of correlation report: do aug 3 16:56:07 CEST 2017

From date 2017-07-30 upto 2017-08-03 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): ppd42ns, dylos

Graphs based on data INFLUX from influxdb on server localhost as user teus:

Database table BdP_8d5ba45f sensor (column) pm10: 384 db records, deleted 0 NaN records.

Auto interval samples is (re)set to 1316 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) pm10_pcsqf: 369 db records, deleted 0 NaN records.

Collected 369 values in sample time frame (21m/56s) for the graph. Skipped 15 db records, could not find any value(s) in same sample interval.

Samples period: Jul 30 00:00 up to Aug 03 2017 00:00, interval timing 21m:56s.

Data from table/sheet BdP_3f18c330, sensor (column) pm10_pcsqf:

number 369, min= 1.00, max=210.58

avg=53.55, std dev=31.65

R-squared (R^2) with BdP_3f18c330/pm10_pcsqf: 0.2904

Best fit linear single polynomial regression curve ($A_0 \cdot X^0 + A_1 \cdot X^1$):

BdP_8d5ba45f/pm10 (ppd42ns)-> best fit coefficients:

1.633e+01, 7.432e-01

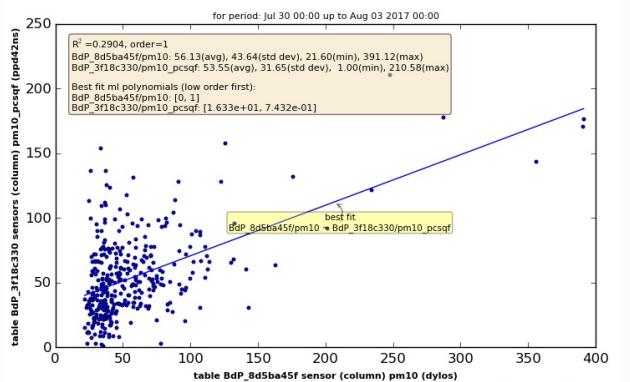
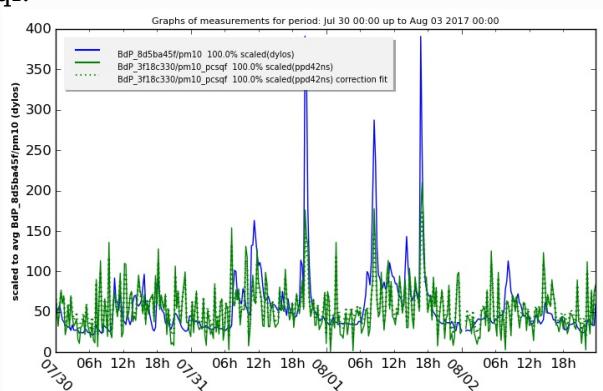
Statistical summary linear regression for BdP_8d5ba45f/pm10 with ['BdP_3f18c330/pm10_pcsqf']:

OLS Regression Results

| Dep. Variable: | BdP_8d5ba45f/pm10 | R-squared: | 0.290 |
|-------------------|-------------------|---------------------|----------|
| Model: | OLS | Adj. R-squared: | 0.288 |
| Method: | Least Squares | F-statistic: | 150.2 |
| Date: | Thu, 03 Aug 2017 | Prob (F-statistic): | 3.50e-29 |
| Time: | 16:56:07 | Log-Likelihood: | -1853.6 |
| No. Observations: | 369 | AIC: | 3711. |
| Df Residuals: | 367 | BIC: | 3719. |
| Df Model: | 1 | | |

| coef | std err | t | P> t | [95.0% Conf. Int.] |
|-------------------------|---------|-------|-------|--------------------|
| BdP_3f18c330/pm10_pcsqf | 16.3335 | 3.772 | 4.330 | 0.000 8.916 23.751 |

| Omnibus: | 250.427 | Durbin-Watson: | 0.938 |
|----------------|---------|-------------------|----------|
| Prob(Omnibus): | 0.000 | Jarque-Bera (JB): | 3821.417 |
| Skew: | 2.629 | Prob(JB): | 0.00 |
| Kurtosis: | 17.863 | Cond. No. | 122. |



Correlation report for pm10 (raw) measurements: sensor type dylos@BdP_8d5ba45f

with sds011@BdP_33040d54

Correlation details of project BdP sensor kit ID 8d5ba45f with project BdP sensor kit ID 33040d54

Date of correlation report: do aug 3 16:56:09 CEST 2017

From date 2017-07-30 upto 2017-08-03 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): sds011, dylos

Graphs based on data INFLUX from influxdb on server localhost as user teus:

Database table BdP_8d5ba45f sensor (column) pm10: 384 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm10: 384 db records, deleted 0 NaN records.

Collected 384 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 03 2017 00:00, interval timing 15m:0s.

Data from table/sheet BdP_33040d54, sensor (column) pm10:

number 384, min= 4.29, max=37.25

avg=12.06, std dev= 5.66

R-squared (R^2) with BdP_33040d54/pm10: 0.5113

Best fit linear single polynomial regression curve ($A_0 \cdot X^0 + A_1 \cdot X^1$):

BdP_8d5ba45f/pm10 (sds011)-> best fit coefficients:

-1.026e+01, 5.433e+00

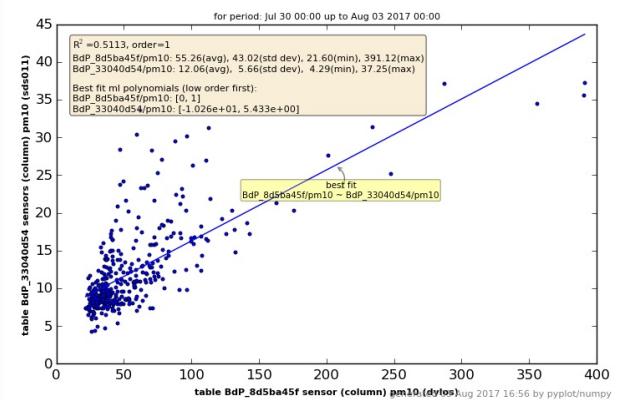
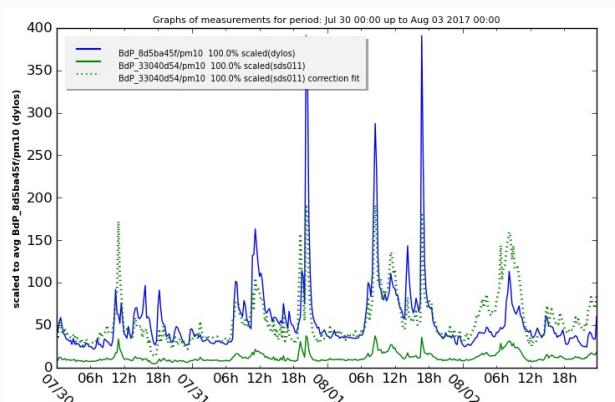
Statistical summary linear regression for BdP_8d5ba45f/pm10
with ['BdP_33040d54/pm10']:

OLS Regression Results

| | | | |
|--------------------------|-------------------|----------------------------|----------|
| Dep. Variable: | BdP_8d5ba45f/pm10 | R-squared: | 0.511 |
| Model: | OLS | Adj. R-squared: | 0.510 |
| Method: | Least Squares | F-statistic: | 399.6 |
| Date: | Thu, 03 Aug 2017 | Prob (F-statistic): | 2.32e-61 |
| Time: | 16:56:10 | Log-Likelihood: | -1851.9 |
| No. Observations: | 384 | AIC: | 3708. |
| Df Residuals: | 382 | BIC: | 3716. |
| Df Model: | 1 | | |

coef std err t P>|t| [95.0% Conf. Int.]
BdP_33040d54/pm10 -10.2564 3.621 -2.833 0.005 -17.376 -3.137

Omnibus: 220.808 Durbin-Watson: 0.477
Prob(Omnibus): 0.000 Jarque-Bera (JB): 3643.027
Skew: 2.058 Prob(JB): 0.00
Kurtosis: 17.517 Cond. No. 31.5



Correlation report for pm10 (raw) measurements: sensor type dylos@BdP_8d5ba45f

with ppd42ns@BdP_33040d54

Correlation details of project BdP sensor kit ID 8d5ba45f with project BdP sensor kit ID 33040d54

Date of correlation report: do aug 3 16:56:11 CEST 2017

From date 2017-07-30 upto 2017-08-03 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): ppd42ns, dylos

Graphs based on data INFLUX from influxdb on server localhost as user teus:

Database table BdP_8d5ba45f sensor (column) pm10: 384 db records, deleted 0 NaN records.

Auto interval samples is (re)set to 1956 (avg+2*stddev)

Database table BdP_33040d54 sensor (column) pm10_pcsqf: 319 db records, deleted 0 NaN records.

Collected 380 values in sample time frame (32m/36s) for the graph. Skipped 4 db records, could not find any value(s) in same sample interval.

Samples period: Jul 30 00:00 up to Aug 03 2017 00:00, interval timing 32m:36s.

Data from table/sheet BdP_33040d54, sensor (column) pm10_pcsqf:

number 380, min= 1.00, max=195.88

avg=39.95, std dev=22.92

R-squared (R^2) with BdP_33040d54/pm10_pcsqf: 0.0372

Best fit linear single polynomial regression curve ($A_0 \cdot X^0 + A_1 \cdot X^1$):

BdP_8d5ba45f/pm10 (ppd42ns)-> best fit coefficients:

4.104e+01, 3.630e-01

Statistical summary linear regression for BdP_8d5ba45f/pm10 with ['BdP_33040d54/pm10_pcsqf']:

OLS Regression Results

| | | | |
|--------------------------|-------------------|----------------------------|----------|
| Dep. Variable: | BdP_8d5ba45f/pm10 | R-squared: | 0.037 |
| Model: | OLS | Adj. R-squared: | 0.035 |
| Method: | Least Squares | F-statistic: | 14.59 |
| Date: | Thu, 03 Aug 2017 | Prob (F-statistic): | 0.000156 |
| Time: | 16:56:12 | Log-Likelihood: | -1962.7 |
| No. Observations: | 380 | AIC: | 3929. |
| Df Residuals: | 378 | BIC: | 3937. |
| Df Model: | 1 | | |

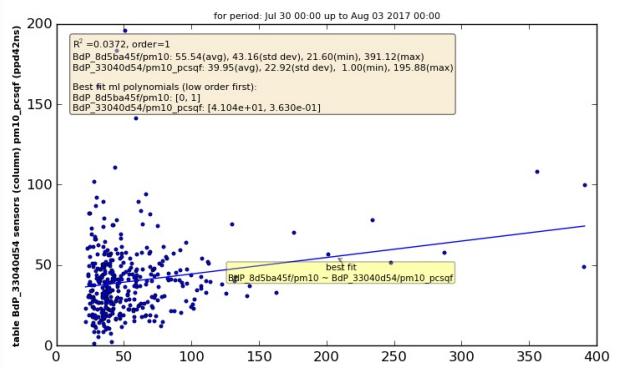
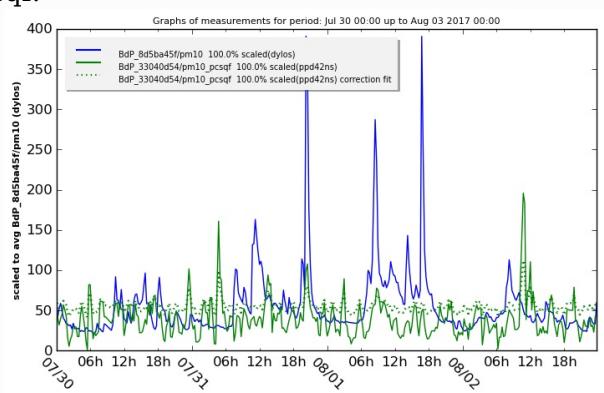
| | coef | std err | t | P> t | [95.0% Conf. Int.] |
|--------------------------------|---------|---------|-------|-------|--------------------|
| BdP_33040d54/pm10_pcsqf | 41.0357 | 4.378 | 9.374 | 0.000 | 32.428 49.643 |

Omnibus: 364.224 **Durbin-Watson:** 0.522

Prob(Omnibus): 0.000 **Jarque-Bera (JB):** 10468.051

Skew: 4.132 **Prob(JB):** 0.00

Kurtosis: 27.348 **Cond. No.** 92.6



Correlation report for pm10 (raw) measurements: sensor type dylos@BdP_8d5ba45f

with pms7003@BdP_33040d54

Correlation details of project BdP sensor kit ID 8d5ba45f with project BdP sensor kit ID 33040d54

Date of correlation report: do aug 3 16:56:13 CEST 2017

From date 2017-07-30 upto 2017-08-03 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): dylos, pms7003

Graphs based on data INFLUX from influxdb on server localhost as user teus:

Database table BdP_8d5ba45f sensor (column) pm10: 384 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm10_atm: 384 db records, deleted 0 NaN records.

Collected 384 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 03 2017 00:00, interval timing 15m:0s.

Data from table/sheet BdP_33040d54, sensor (column) pm10_atm:

number 384, min= 0.67, max=71.40

avg=15.60, std dev= 8.93

R-squared (R^2) with BdP_33040d54/pm10_atm: 0.0585

Best fit linear single polynomial regression curve ($A_0 \cdot X^0 + A_1 \cdot X^1$):

BdP_8d5ba45f/pm10 (pms7003)-> best fit coefficients:

3.708e+01, 1.166e+00

Statistical summary linear regression for BdP_8d5ba45f/pm10 with ['BdP_33040d54/pm10_atm']:

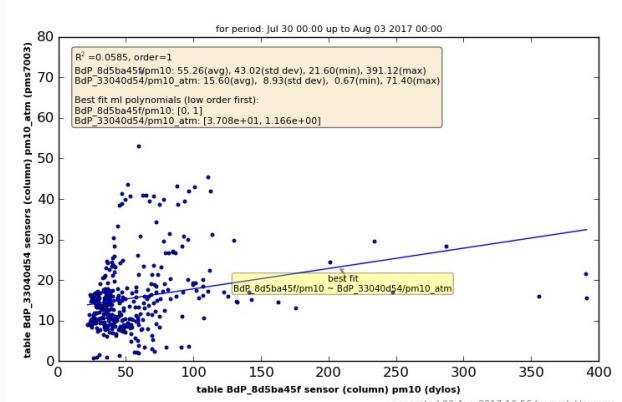
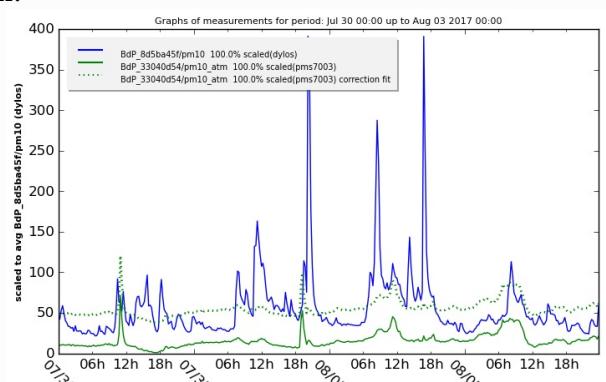
OLS Regression Results

| | | | |
|--------------------------|-------------------|----------------------------|----------|
| Dep. Variable: | BdP_8d5ba45f/pm10 | R-squared: | 0.058 |
| Model: | OLS | Adj. R-squared: | 0.056 |
| Method: | Least Squares | F-statistic: | 23.74 |
| Date: | Thu, 03 Aug 2017 | Prob (F-statistic): | 1.62e-06 |
| Time: | 16:56:14 | Log-Likelihood: | -1977.8 |
| No. Observations: | 384 | AIC: | 3960. |
| Df Residuals: | 382 | BIC: | 3967. |
| Df Model: | 1 | | |

coef std err t P>|t| [95.0% Conf. Int.]

BdP_33040d54/pm10_atm 37.0761 4.301 8.620 0.000 28.619 45.533

| | | | |
|-----------------------|---------|--------------------------|-----------|
| Omnibus: | 403.460 | Durbin-Watson: | 0.521 |
| Prob(Omnibus): | 0.000 | Jarque-Bera (JB): | 15373.220 |
| Skew: | 4.679 | Prob(JB): | 0.00 |
| Kurtosis: | 32.551 | Cond. No. | 36.3 |



Correlation report for pm10 (raw) measurements: sensor type sds011@BdP_3f18c330

with ppd42ns@BdP_3f18c330

Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 3f18c330

Date of correlation report: do aug 3 16:56:16 CEST 2017

From date 2017-07-30 upto 2017-08-03 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): sds011, ppd42ns

Graphs based on data INFLUX from influxdb on server localhost as user teus:

Database table BdP_3f18c330 sensor (column) pm10: 384 db records, deleted 0 NaN records.

Auto interval samples is (re)set to 1316 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) pm10_pcsqf: 369 db records, deleted 0 NaN records.

Collected 369 values in sample time frame (21m/56s) for the graph. Skipped 15 db records, could not find any value(s) in same sample interval.

Samples period: Jul 30 00:00 up to Aug 03 2017 00:00, interval timing 21m:56s.

Data from table/sheet BdP_3f18c330, sensor (column) pm10_pcsqf:

number 369, min= 1.00, max=210.58

avg=53.55, std dev=31.65

R-squared (R^2) with BdP_3f18c330/pm10_pcsqf: 0.1535

Best fit linear single polynomial regression curve ($A_0 \cdot X^0 + A_1 \cdot X^1$):

BdP_3f18c330/pm10 (ppd42ns)-> best fit coefficients:

7.444e+00, 6.121e-02

Statistical summary linear regression for BdP_3f18c330/pm10 with ['BdP_3f18c330/pm10_pcsqf']:

OLS Regression Results

| Dep. Variable: | BdP_3f18c330/pm10 | R-squared: | 0.153 |
|-------------------|-------------------|---------------------|----------|
| Model: | OLS | Adj. R-squared: | 0.151 |
| Method: | Least Squares | F-statistic: | 66.55 |
| Date: | Thu, 03 Aug 2017 | Prob (F-statistic): | 5.50e-15 |
| Time: | 16:56:16 | Log-Likelihood: | -1082.6 |
| No. Observations: | 369 | AIC: | 2169. |
| Df Residuals: | 367 | BIC: | 2177. |
| Df Model: | 1 | | |

coef std err t P>|t| [95.0% Conf. Int.]

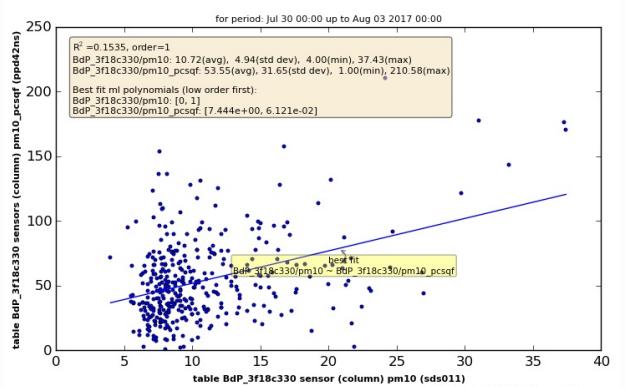
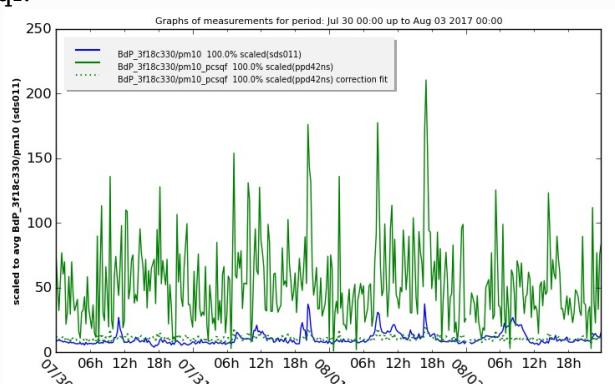
BdP_3f18c330/pm10_pcsqf 7.4444 0.467 15.949 0.000 6.527 8.362

Omnibus: 119.317 Durbin-Watson: 0.578

Prob(Omnibus): 0.000 Jarque-Bera (JB): 308.192

Skew: 1.568 Prob(JB): 1.19e-67

Kurtosis: 6.195 Cond. No. 122.



Correlation report for pm10 (raw) measurements: sensor type sds011@BdP_3f18c330

with sds011@BdP_33040d54

Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 33040d54

Date of correlation report: do aug 3 16:56:18 CEST 2017

From date 2017-07-30 upto 2017-08-03 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): sds011

Graphs based on data INFLUX from influxdb on server localhost as user teus:

Database table BdP_3f18c330 sensor (column) pm10: 384 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm10: 384 db records, deleted 0 NaN records.

Collected 384 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 03 2017 00:00, interval timing 15m:0s.

Data from table/sheet BdP_33040d54, sensor (column) pm10:

number 384, min= 4.29, max=37.25

avg=12.06, std dev= 5.66

R-squared (R^2) with BdP_33040d54/pm10: 0.9283

Best fit linear single polynomial regression curve ($A_0 \cdot X^0 + A_1 \cdot X^1$):

BdP_3f18c330/pm10 (sds011)-> best fit coefficients:

5.790e-01, 8.320e-01

Statistical summary linear regression for BdP_3f18c330/pm10
with ['BdP_33040d54/pm10']:

OLS Regression Results

| | | | |
|--------------------------|-------------------|----------------------------|-----------|
| Dep. Variable: | BdP_3f18c330/pm10 | R-squared: | 0.928 |
| Model: | OLS | Adj. R-squared: | 0.928 |
| Method: | Least Squares | F-statistic: | 4949. |
| Date: | Thu, 03 Aug 2017 | Prob (F-statistic): | 9.60e-221 |
| Time: | 16:56:18 | Log-Likelihood: | -648.22 |
| No. Observations: | 384 | AIC: | 1300. |
| Df Residuals: | 382 | BIC: | 1308. |
| Df Model: | 1 | | |

coef std err t P>|t| [95.0% Conf. Int.]

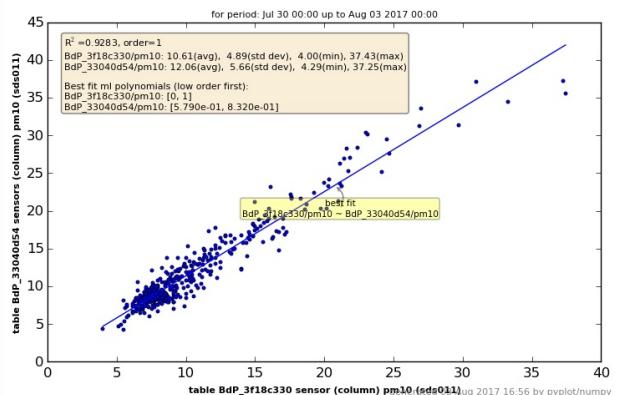
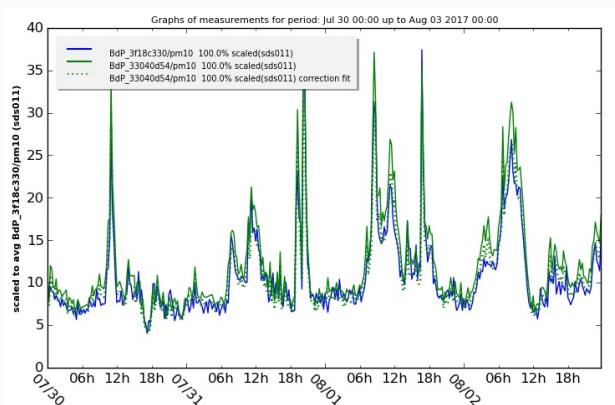
BdP_33040d54/pm10 0.5790 0.158 3.675 0.000 0.269 0.889

Omnibus: 67.743 **Durbin-Watson:** 1.527

Prob(Omnibus): 0.000 **Jarque-Bera (JB):** 216.751

Skew: 0.779 **Prob(JB):** 8.57e-48

Kurtosis: 6.335 **Cond. No.** 31.5



Correlation report for pm10 (raw) measurements: sensor type sds011@BdP_3f18c330

with ppd42ns@BdP_33040d54

Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 33040d54

Date of correlation report: do aug 3 16:56:20 CEST 2017

From date 2017-07-30 upto 2017-08-03 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): sds011, ppd42ns

Graphs based on data INFLUX from influxdb on server localhost as user teus:

Database table BdP_3f18c330 sensor (column) pm10: 384 db records, deleted 0 NaN records.

Auto interval samples is (re)set to 1956 (avg+2*stddev)

Database table BdP_33040d54 sensor (column) pm10_pcsqf: 319 db records, deleted 0 NaN records.

Collected 380 values in sample time frame (32m/36s) for the graph. Skipped 4 db records, could not find any value(s) in same sample interval.

Samples period: Jul 30 00:00 up to Aug 03 2017 00:00, interval timing 32m:36s.

Data from table/sheet BdP_33040d54, sensor (column) pm10_pcsqf:

number 380, min= 1.00, max=195.88

avg=39.95, std dev=22.92

R-squared (R^2) with BdP_33040d54/pm10_pcsqf: 0.0131

Best fit linear single polynomial regression curve ($A_0 \cdot X^0 + A_1 \cdot X^1$):

BdP_3f18c330/pm10 (ppd42ns)-> best fit coefficients:

9.668e+00, 2.448e-02

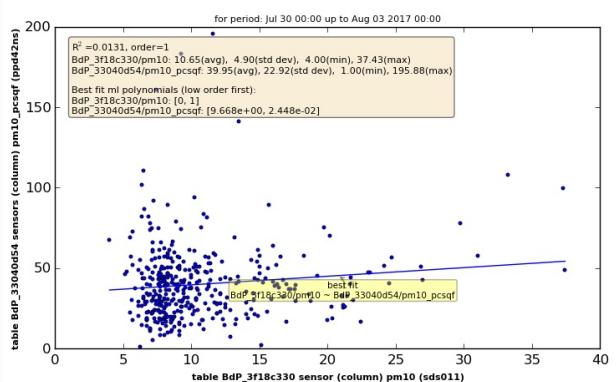
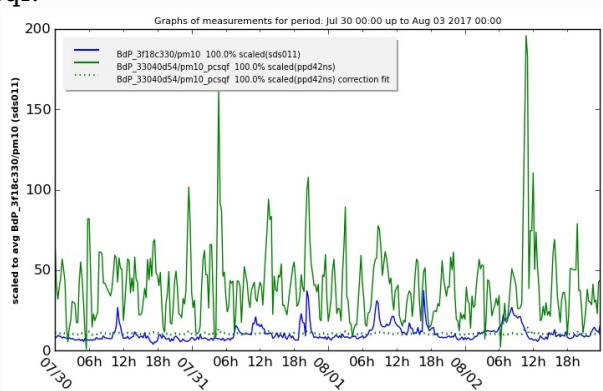
Statistical summary linear regression for BdP_3f18c330/pm10 with ['BdP_33040d54/pm10_pcsqf']:

OLS Regression Results

| | | | |
|--------------------------|-------------------|----------------------------|---------|
| Dep. Variable: | BdP_3f18c330/pm10 | R-squared: | 0.013 |
| Model: | OLS | Adj. R-squared: | 0.010 |
| Method: | Least Squares | F-statistic: | 5.014 |
| Date: | Thu, 03 Aug 2017 | Prob (F-statistic): | 0.0257 |
| Time: | 16:56:20 | Log-Likelihood: | -1140.9 |
| No. Observations: | 380 | AIC: | 2286. |
| Df Residuals: | 378 | BIC: | 2294. |
| Df Model: | 1 | | |

cof std err t P>|t| [95.0% Conf. Int.]
BdP_33040d54/pm10_pcsqf 9.6683 0.504 19.201 0.000 8.678 10.658

Omnibus: 184.480 **Durbin-Watson:** 0.400
Prob(Omnibus): 0.000 **Jarque-Bera (JB):** 839.220
Skew: 2.137 **Prob(JB):** 5.83e-183
Kurtosis: 8.894 **Cond. No.** 92.6



Correlation report for pm10 (raw) measurements: sensor type sds011@BdP_3f18c330

with pms7003@BdP_33040d54

Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 33040d54

Date of correlation report: do aug 3 16:56:22 CEST 2017

From date 2017-07-30 upto 2017-08-03 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): sds011, pms7003

Graphs based on data INFLUX from influxdb on server localhost as user teus:

Database table BdP_3f18c330 sensor (column) pm10: 384 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm10_atm: 384 db records, deleted 0 NaN records.

Collected 384 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 03 2017 00:00, interval timing 15m:0s.

Data from table/sheet BdP_33040d54, sensor (column) pm10_atm:

number 384, min= 0.67, max=71.40

avg=15.60, std dev= 8.93

R-squared (R^2) with BdP_33040d54/pm10_atm: 0.5207

Best fit linear single polynomial regression curve ($A_0 \cdot X^0 + A_1 \cdot X^1$):

BdP_3f18c330/pm10 (pms7003)-> best fit coefficients:

4.446e+00, 3.952e-01

Statistical summary linear regression for BdP_3f18c330/pm10 with ['BdP_33040d54/pm10_atm']:

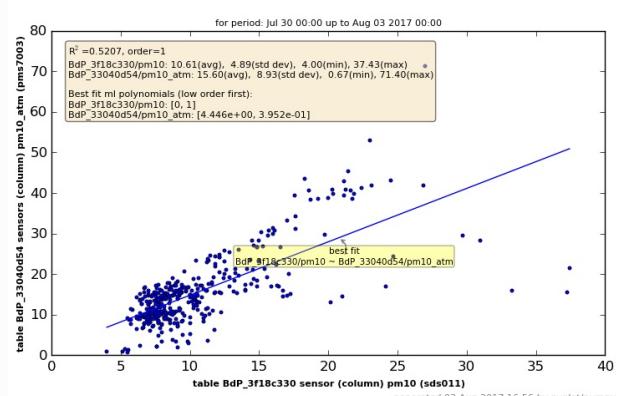
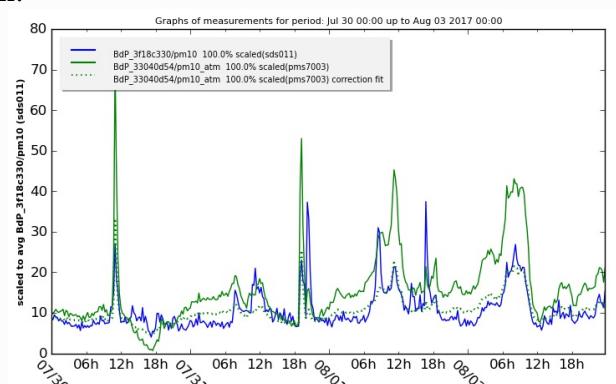
OLS Regression Results

| | | | |
|--------------------------|-------------------|----------------------------|----------|
| Dep. Variable: | BdP_3f18c330/pm10 | R-squared: | 0.521 |
| Model: | OLS | Adj. R-squared: | 0.519 |
| Method: | Least Squares | F-statistic: | 415.0 |
| Date: | Thu, 03 Aug 2017 | Prob (F-statistic): | 5.52e-63 |
| Time: | 16:56:22 | Log-Likelihood: | -1013.1 |
| No. Observations: | 384 | AIC: | 2030. |
| Df Residuals: | 382 | BIC: | 2038. |
| Df Model: | 1 | | |

coef std err t P>|t| [95.0% Conf. Int.]

BdP_33040d54/pm10_atm 4.4457 0.349 12.747 0.000 3.760 5.131

| | | | |
|-----------------------|---------|--------------------------|----------|
| Omnibus: | 352.833 | Durbin-Watson: | 0.626 |
| Prob(Omnibus): | 0.000 | Jarque-Bera (JB): | 9398.583 |
| Skew: | 3.899 | Prob(JB): | 0.00 |
| Kurtosis: | 25.948 | Cond. No. | 36.3 |



Correlation report for pm10 (raw) measurements: sensor type ppd42ns@BdP_3f18c330

with sds011@BdP_33040d54

Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 33040d54

Date of correlation report: do aug 3 16:56:24 CEST 2017

From date 2017-07-30 upto 2017-08-03 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): sds011, ppd42ns

Graphs based on data INFLUX from influxdb on server localhost as user teus:

Auto interval samples is (re)set to 1316 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) pm10_pcsqf: 369 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm10: 263 db records, deleted 0 NaN records.

Collected 369 values in sample time frame (21m/56s) for the graph.

Samples period: Jul 30 00:00 up to Aug 03 2017 00:00, interval timing 21m:56s.

Data from table/sheet BdP_33040d54, sensor (column) pm10:

number 369, min= 4.27, max=36.18

avg=12.16, std dev= 5.48

R-squared (R^2) with BdP_33040d54/pm10: 0.1024

Best fit linear single polynomial regression curve ($A_0 * X^0 + A_1 * X^1$):

BdP_3f18c330/pm10_pcsqf (sds011)-> best fit coefficients:

3.105e+01, 1.850e+00

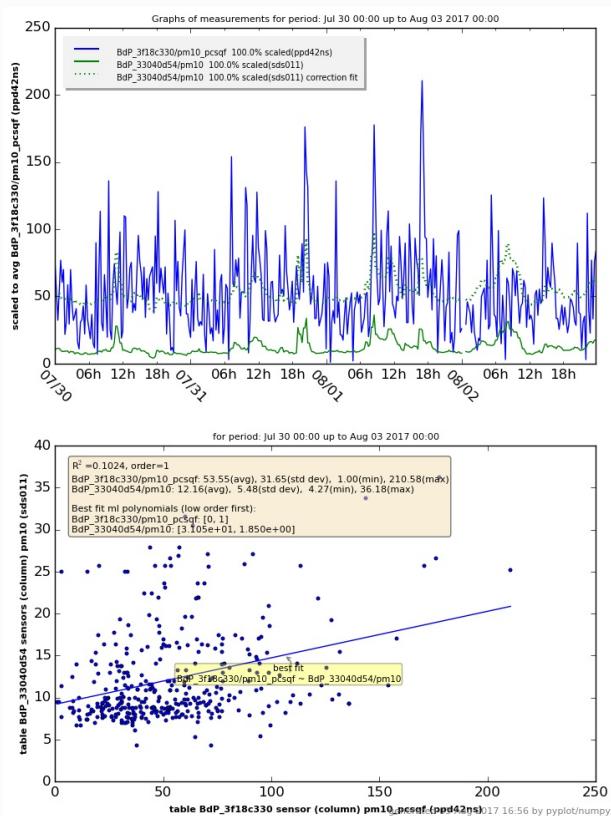
Statistical summary linear regression for
BdP_3f18c330/pm10_pcsqf with ['BdP_33040d54/pm10']:

OLS Regression Results

| | | | |
|--------------------------|-------------------------|----------------------------|----------|
| Dep. Variable: | BdP_3f18c330/pm10_pcsqf | R-squared: | 0.102 |
| Model: | OLS | Adj. R-squared: | 0.100 |
| Method: | Least Squares | F-statistic: | 41.88 |
| Date: | Thu, 03 Aug 2017 | Prob (F-statistic): | 3.10e-10 |
| Time: | 16:56:25 | Log-Likelihood: | -1778.4 |
| No. Observations: | 369 | AIC: | 3561. |
| Df Residuals: | 367 | BIC: | 3569. |
| Df Model: | 1 | | |

coef std err t P>|t| [95.0% Conf. Int.]
BdP_33040d54/pm10 31.0522 3.813 8.145 0.000 23.555 38.549

Omnibus: 62.973 Durbin-Watson: 1.542
Prob(Omnibus): 0.000 Jarque-Bera (JB): 101.983
Skew: 1.018 Prob(JB): 7.16e-23
Kurtosis: 4.576 Cond. No. 32.7



Correlation report for pm10 (raw) measurements: sensor type ppd42ns@BdP_3f18c330

with ppd42ns@BdP_33040d54

Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 33040d54

Date of correlation report: do aug 3 16:56:26 CEST 2017

From date 2017-07-30 upto 2017-08-03 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): ppd42ns

Graphs based on data INFLUX from influxdb on server localhost as user teus:

Auto interval samples is (re)set to 1316 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) pm10_pcsqf: 369 db records, deleted 0 NaN records.

Auto interval samples is (re)set to 2036 (minimal- 50% -maximal)

Database table BdP_33040d54 sensor (column) pm10_pcsqf: 243 db records, deleted 0 NaN records.

Collected 356 values in sample time frame (33m/56s) for the graph. Skipped 13 db records, could not find any value(s) in same sample interval.

Samples period: Jul 30 00:00 up to Aug 03 2017 00:00, interval timing 33m:56s.

Data from table/sheet BdP_33040d54, sensor (column) pm10_pcsqf:

number 356, min= 1.00, max=201.20

avg=40.54, std dev=28.01

R-squared (R^2) with BdP_33040d54/pm10_pcsqf: 0.0019

Best fit linear single polynomial regression curve ($A_0 \cdot X^0 + A_1 \cdot X^1$):

BdP_3f18c330/pm10_pcsqf (ppd42ns)-> best fit coefficients:

5.232e+01, 4.942e-02

Statistical summary linear regression for

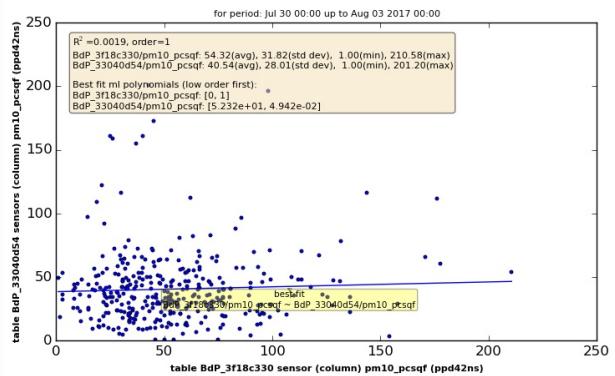
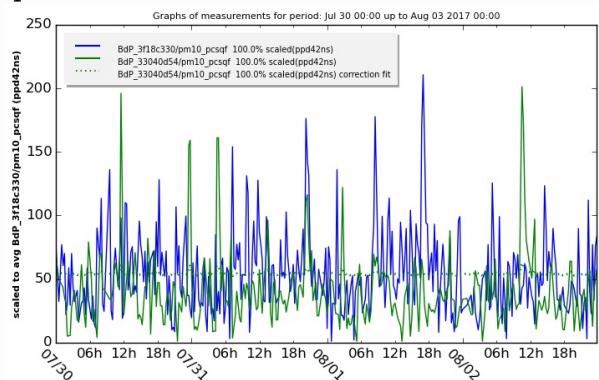
BdP_3f18c330/pm10_pcsqf with ['BdP_33040d54/pm10_pcsqf']:

OLS Regression Results

| Dep. Variable: | BdP_3f18c330/pm10_pcsqf | R-squared: | 0.002 |
|-------------------|-------------------------|---------------------|---------|
| Model: | OLS | Adj. R-squared: | -0.001 |
| Method: | Least Squares | F-statistic: | 0.6716 |
| Date: | Thu, 03 Aug 2017 | Prob (F-statistic): | 0.413 |
| Time: | 16:56:27 | Log-Likelihood: | -1736.6 |
| No. Observations: | 356 | AIC: | 3477. |
| Df Residuals: | 354 | BIC: | 3485. |
| Df Model: | 1 | | |

coefficient std error t P>|t| [95.0% Conf. Int.]
BdP_33040d54/pm10_pcsqf 52.3156 2.972 17.605 0.000 46.471 58.160

Omnibus: 91.946 Durbin-Watson: 1.391
Prob(Omnibus): 0.000 Jarque-Bera (JB): 206.337
Skew: 1.297 Prob(JB): 1.57e-45
Kurtosis: 5.679 Cond. No. 86.7



Correlation report for pm10 (raw) measurements: sensor type ppd42ns@BdP_3f18c330

with pms7003@BdP_33040d54

Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 33040d54

Date of correlation report: do aug 3 16:56:28 CEST 2017

From date 2017-07-30 upto 2017-08-03 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): ppd42ns, pms7003

Graphs based on data INFLUX from influxdb on server localhost as user teus:

Auto interval samples is (re)set to 1316 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) pm10_pcsqf: 369 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm10_atm: 263 db records, deleted 0 NaN records.

Collected 369 values in sample time frame (21m/56s) for the graph.

Samples period: Jul 30 00:00 up to Aug 03 2017 00:00, interval timing 21m:56s.

Data from table/sheet BdP_33040d54, sensor (column) pm10_atm:

number 369, min= 0.76, max=54.77

avg=15.68, std dev= 8.88

R-squared (R^2) with BdP_33040d54/pm10_atm: 0.0024

Best fit linear single polynomial regression curve ($A_0 * X^0 + A_1 * X^1$):

BdP_3f18c330/pm10_pcsqf (pms7003)-> best fit coefficients:

5.083e+01, 1.737e-01

Statistical summary linear regression for
BdP_3f18c330/pm10_pcsqf with ['BdP_33040d54/pm10_atm']:

OLS Regression Results

| | | | |
|--------------------------|-------------------------|----------------------------|---------|
| Dep. Variable: | BdP_3f18c330/pm10_pcsqf | R-squared: | 0.002 |
| Model: | OLS | Adj. R-squared: | -0.000 |
| Method: | Least Squares | F-statistic: | 0.8731 |
| Date: | Thu, 03 Aug 2017 | Prob (F-statistic): | 0.351 |
| Time: | 16:56:29 | Log-Likelihood: | -1797.9 |
| No. Observations: | 369 | AIC: | 3600. |
| Df Residuals: | 367 | BIC: | 3608. |
| Df Model: | 1 | | |

coef std err t P>|t| [95.0% Conf. Int.]

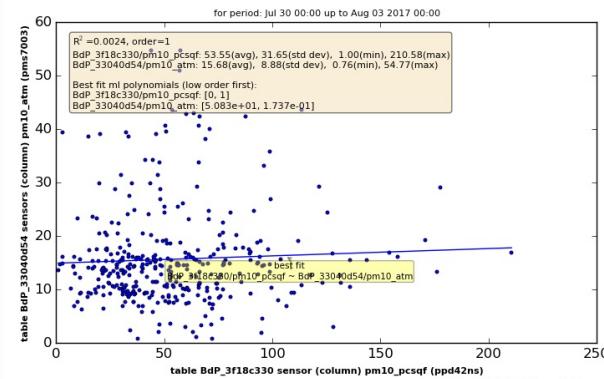
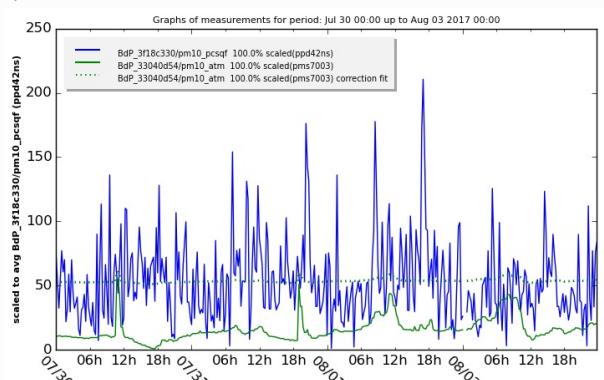
BdP_33040d54/pm10_atm 50.8281 3.350 15.174 0.000 44.241 57.415

Omnibus: 99.624 **Durbin-Watson:** 1.396

Prob(Omnibus): 0.000 **Jarque-Bera (JB):** 234.777

Skew: 1.338 **Prob(JB):** 1.04e-51

Kurtosis: 5.847 **Cond. No.** 36.7



Correlation report for pm10 (raw) measurements: sensor type sds011@BdP_33040d54

with ppd42ns@BdP_33040d54

Correlation details of project BdP sensor kit ID 33040d54 with project BdP sensor kit ID 33040d54

Date of correlation report: do aug 3 16:56:30 CEST 2017

From date 2017-07-30 upto 2017-08-03 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): sds011, ppd42ns

Graphs based on data INFLUX from influxdb on server localhost as user teus:

Database table BdP_33040d54 sensor (column) pm10: 384 db records, deleted 0 NaN records.

Auto interval samples is (re)set to 1956 (avg+2*stddev)

Database table BdP_33040d54 sensor (column) pm10_pcsqf: 319 db records, deleted 0 NaN records.

Collected 380 values in sample time frame (32m/36s) for the graph. Skipped 4 db records, could not find any value(s) in same sample interval.

Samples period: Jul 30 00:00 up to Aug 03 2017 00:00, interval timing 32m:36s.

Data from table/sheet BdP_33040d54, sensor (column) pm10_pcsqf:

number 380, min= 1.00, max=195.88

avg=39.95, std dev=22.92

R-squared (R^2) with BdP_33040d54/pm10_pcsqf: 0.0075

Best fit linear single polynomial regression curve ($A_0 \cdot X^0 + A_1 \cdot X^1$):

BdP_33040d54/pm10 (ppd42ns)-> best fit coefficients:

1.123e+01, 2.145e-02

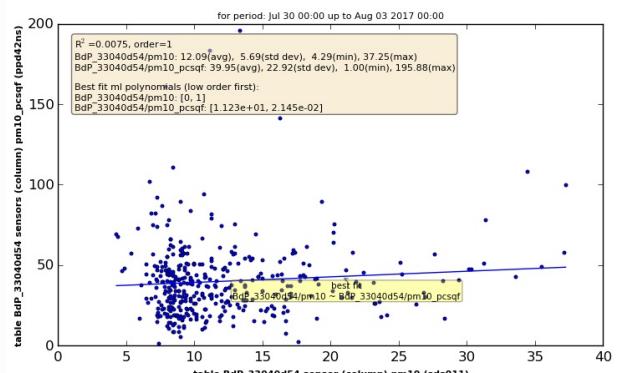
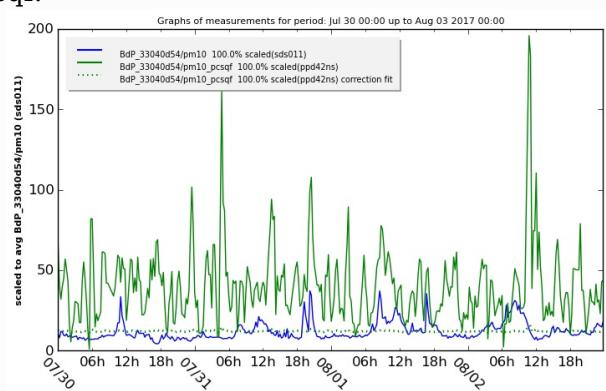
Statistical summary linear regression for BdP_33040d54/pm10 with ['BdP_33040d54/pm10_pcsqf']:

OLS Regression Results

| | | | |
|--------------------------|-------------------|----------------------------|---------|
| Dep. Variable: | BdP_33040d54/pm10 | R-squared: | 0.007 |
| Model: | OLS | Adj. R-squared: | 0.005 |
| Method: | Least Squares | F-statistic: | 2.849 |
| Date: | Thu, 03 Aug 2017 | Prob (F-statistic): | 0.0923 |
| Time: | 16:56:31 | Log-Likelihood: | -1198.2 |
| No. Observations: | 380 | AIC: | 2400. |
| Df Residuals: | 378 | BIC: | 2408. |
| Df Model: | 1 | | |

coef std err t P>|t| [95.0% Conf. Int.]
BdP_33040d54/pm10_pcsqf 11.2290 0.585 19.179 0.000 10.078 12.380

Omnibus: 147.960 **Durbin-Watson:** 0.328
Prob(Omnibus): 0.000 **Jarque-Bera (JB):** 439.960
Skew: 1.851 **Prob(JB):** 2.91e-96
Kurtosis: 6.753 **Cond. No.** 92.6



Correlation report for pm10 (raw) measurements: sensor type sds011@BdP_33040d54

with pms7003@BdP_33040d54

Correlation details of project BdP sensor kit ID 33040d54 with project BdP sensor kit ID 33040d54

Date of correlation report: do aug 3 16:56:32 CEST 2017

From date 2017-07-30 upto 2017-08-03 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): sds011, pms7003

Graphs based on data INFLUX from influxdb on server localhost as user teus:

Database table BdP_33040d54 sensor (column) pm10: 384 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm10_atm: 384 db records, deleted 0 NaN records.

Collected 384 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 03 2017 00:00, interval timing 15m:0s.

Data from table/sheet BdP_33040d54, sensor (column) pm10_atm:

number 384, min= 0.67, max=71.40

avg=15.60, std dev= 8.93

R-squared (R^2) with BdP_33040d54/pm10_atm: 0.6339

Best fit linear single polynomial regression curve ($A_0 \cdot X^0 + A_1 \cdot X^1$):

BdP_33040d54/pm10 (pms7003)-> best fit coefficients:

4.180e+00, 5.050e-01

Statistical summary linear regression for BdP_33040d54/pm10 with ['BdP_33040d54/pm10_atm']:

OLS Regression Results

| | | | |
|--------------------------|-------------------|----------------------------|----------|
| Dep. Variable: | BdP_33040d54/pm10 | R-squared: | 0.634 |
| Model: | OLS | Adj. R-squared: | 0.633 |
| Method: | Least Squares | F-statistic: | 661.5 |
| Date: | Thu, 03 Aug 2017 | Prob (F-statistic): | 2.24e-85 |
| Time: | 16:56:33 | Log-Likelihood: | -1017.7 |
| No. Observations: | 384 | AIC: | 2039. |
| Df Residuals: | 382 | BIC: | 2047. |
| Df Model: | 1 | | |

coef std err t P>|t| [95.0% Conf. Int.]

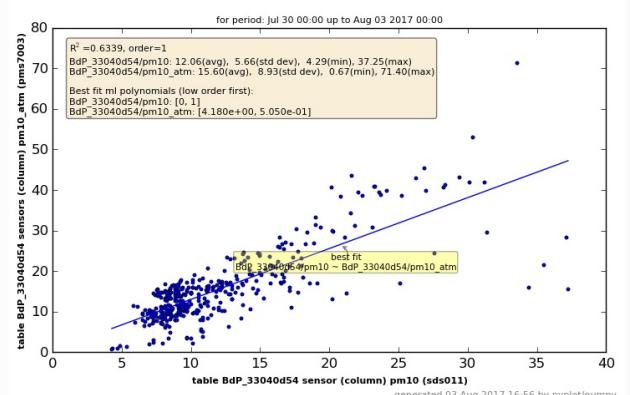
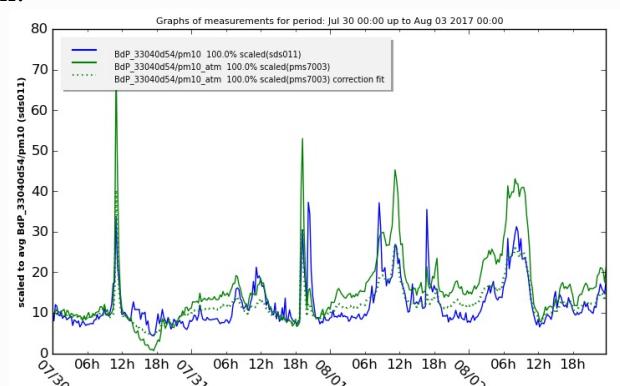
BdP_33040d54/pm10_atm 4.1800 0.353 11.842 0.000 3.486 4.874

Omnibus: 300.910 Durbin-Watson: 0.608

Prob(Omnibus): 0.000 Jarque-Bera (JB): 5272.405

Skew: 3.211 Prob(JB): 0.00

Kurtosis: 19.979 Cond. No. 36.3



Correlation report for pm10 (raw) measurements: sensor type ppd42ns@BdP_33040d54

with pms7003@BdP_33040d54

Correlation details of project BdP sensor kit ID 33040d54 with project BdP sensor kit ID 33040d54

Date of correlation report: do aug 3 16:56:35 CEST 2017

From date 2017-07-30 upto 2017-08-03 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): ppd42ns, pms7003

Graphs based on data INFLUX from influxdb on server localhost as user teus:

Auto interval samples is (re)set to 1956 (avg+2*stddev)

Database table BdP_33040d54 sensor (column) pm10_pcsqf: 319 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm10_atm: 177 db records, deleted 0 NaN records.

Collected 318 values in sample time frame (32m/36s) for the graph. Skipped 1 db records, could not find any value(s) in same sample interval.

Samples period: Jul 30 00:00 up to Aug 03 2017 00:00, interval timing 32m:36s.

Data from table/sheet BdP_33040d54, sensor (column) pm10_atm:

number 318, min= 0.81, max=43.34

avg=15.97, std dev= 8.81

R-squared (R^2) with BdP_33040d54/pm10_atm: 0.0000

Best fit linear single polynomial regression curve ($A_0 \cdot X^0 + A_1 \cdot X^1$):

BdP_33040d54/pm10_pcsqf (pms7003)-> best fit coefficients:

3.934e+01, 5.499e-03

Statistical summary linear regression for
BdP_33040d54/pm10_pcsqf with ['BdP_33040d54/pm10_atm']:

OLS Regression Results

| Dep. Variable: | BdP_33040d54/pm10_pcsqf | R-squared: | 0.000 |
|-------------------|-------------------------|---------------------|-----------|
| Model: | OLS | Adj. R-squared: | -0.003 |
| Method: | Least Squares | F-statistic: | 0.0008098 |
| Date: | Thu, 03 Aug 2017 | Prob (F-statistic): | 0.977 |
| Time: | 16:56:35 | Log-Likelihood: | -1535.7 |
| No. Observations: | 318 | AIC: | 3075. |
| Df Residuals: | 316 | BIC: | 3083. |
| Df Model: | 1 | | |

coef std err t P>|t| [95.0% Conf. Int.]

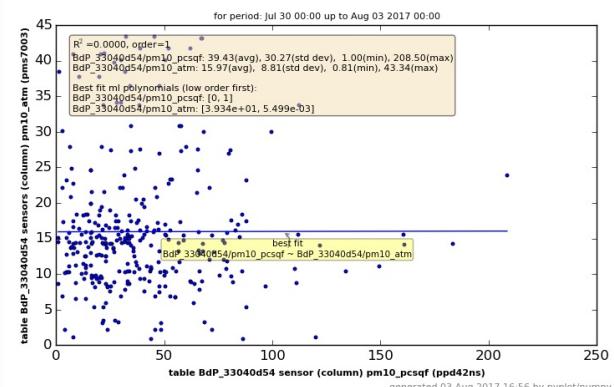
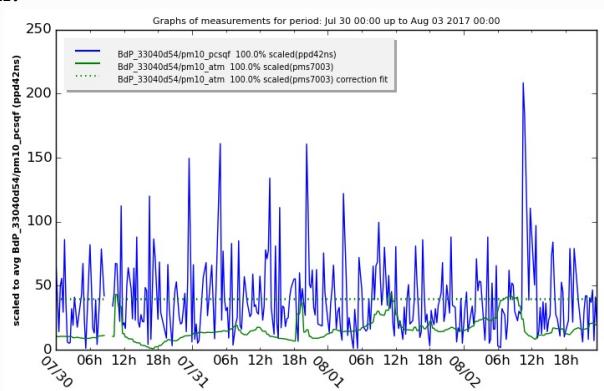
BdP_33040d54/pm10_atm 39.3406 3.524 11.163 0.000 32.407 46.274

Omnibus: 139.943 Durbin-Watson: 1.801

Prob(Omnibus): 0.000 Jarque-Bera (JB): 596.071

Skew: 1.877 Prob(JB): 3.67e-130

Kurtosis: 8.559 Cond. No. 37.8



Correlation report for pm25 (raw) measurements: sensor type dylos@BdP_8d5ba45f

with sds011@BdP_3f18c330

Correlation details of project BdP sensor kit ID 8d5ba45f with project BdP sensor kit ID 3f18c330

Date of correlation report: do aug 3 16:56:37 CEST 2017

From date 2017-07-30 upto 2017-08-03 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): sds011, dylos

Graphs based on data INFLUX from influxdb on server localhost as user teus:

Database table BdP_8d5ba45f sensor (column) pm25: 384 db records, deleted 0 NaN records.

Database table BdP_3f18c330 sensor (column) pm25: 384 db records, deleted 0 NaN records.

Collected 384 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 03 2017 00:00, interval timing 15m:0s.

Data from table/sheet BdP_3f18c330, sensor (column) pm25:

number 384, min=316.14, max=4869.75

avg=1418.02, std dev=733.93

R-squared (R^2) with BdP_3f18c330/pm25: 0.6894

Best fit linear single polynomial regression curve ($A_0 \cdot X^0 + A_1 \cdot X^1$):

BdP_8d5ba45f/pm25 (sds011)-> best fit coefficients:

1.351e+02, 2.541e-01

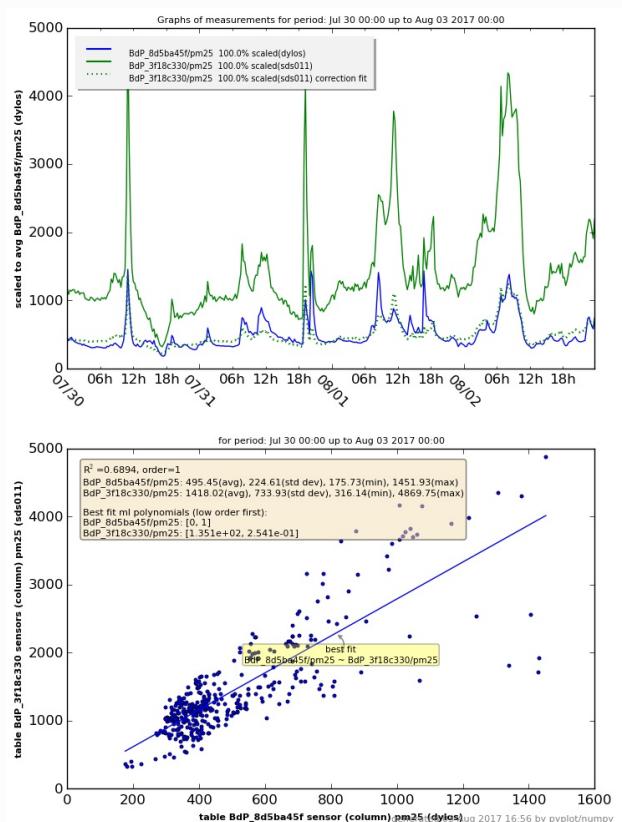
Statistical summary linear regression for BdP_8d5ba45f/pm25
with ['BdP_3f18c330/pm25']:

OLS Regression Results

| | | | |
|--------------------------|-------------------|----------------------------|----------|
| Dep. Variable: | BdP_8d5ba45f/pm25 | R-squared: | 0.689 |
| Model: | OLS | Adj. R-squared: | 0.689 |
| Method: | Least Squares | F-statistic: | 847.9 |
| Date: | Thu, 03 Aug 2017 | Prob (F-statistic): | 5.01e-99 |
| Time: | 16:56:37 | Log-Likelihood: | -2399.5 |
| No. Observations: | 384 | AIC: | 4803. |
| Df Residuals: | 382 | BIC: | 4811. |
| Df Model: | 1 | | |

coef std err t P>|t| [95.0% Conf. Int.]
BdP_3f18c330/pm25 135.1127 13.934 9.697 0.000 107.716 162.509

Omnibus: 280.449 Durbin-Watson: 0.405
Prob(Omnibus): 0.000 Jarque-Bera (JB): 4048.386
Skew: 2.974 Prob(JB): 0.00
Kurtosis: 17.753 Cond. No. 3.47e+03



Correlation report for pm25 (raw) measurements: sensor type dylos@BdP_8d5ba45f

with ppd42ns@BdP_3f18c330

Correlation details of project BdP sensor kit ID 8d5ba45f with project BdP sensor kit ID 3f18c330

Date of correlation report: do aug 3 16:56:39 CEST 2017

From date 2017-07-30 upto 2017-08-03 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): ppd42ns, dylos

Graphs based on data INFLUX from influxdb on server localhost as user teus:

Database table BdP_8d5ba45f sensor (column) pm25: 384 db records, deleted 0 NaN records.

Database table BdP_3f18c330 sensor (column) pm25_pcsqf: 384 db records, deleted 0 NaN records.

Collected 384 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 03 2017 00:00, interval timing 15m:0s.

Data from table/sheet BdP_3f18c330, sensor (column) pm25_pcsqf:

number 384, min=139.90, max=1198.20

avg=386.20, std dev=125.73

R-squared (R^2) with BdP_3f18c330/pm25_pcsqf: 0.3776

Best fit linear single polynomial regression curve ($A_0 \cdot X^0 + A_1 \cdot X^1$):

BdP_8d5ba45f/pm25 (ppd42ns)-> best fit coefficients:

7.148e+01, 1.098e+00

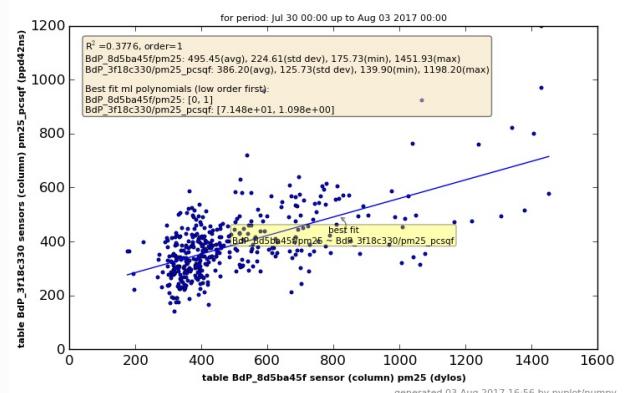
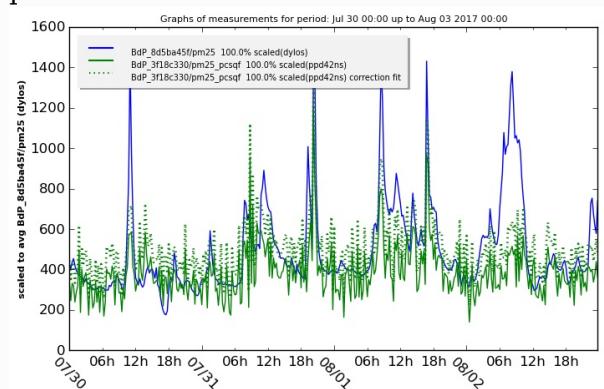
Statistical summary linear regression for BdP_8d5ba45f/pm25 with ['BdP_3f18c330/pm25_pcsqf']:

OLS Regression Results

| | | | |
|--------------------------|-------------------|----------------------------|----------|
| Dep. Variable: | BdP_8d5ba45f/pm25 | R-squared: | 0.378 |
| Model: | OLS | Adj. R-squared: | 0.376 |
| Method: | Least Squares | F-statistic: | 231.8 |
| Date: | Thu, 03 Aug 2017 | Prob (F-statistic): | 3.05e-41 |
| Time: | 16:56:39 | Log-Likelihood: | -2532.9 |
| No. Observations: | 384 | AIC: | 5070. |
| Df Residuals: | 382 | BIC: | 5078. |
| Df Model: | 1 | | |

coef std err t P>|t| [95.0% Conf. Int.]
BdP_3f18c330/pm25_pcsqf 71.4810 29.287 2.441 0.015 13.897 129.065

| | | | |
|-----------------------|---------|--------------------------|----------|
| Omnibus: | 111.310 | Durbin-Watson: | 0.733 |
| Prob(Omnibus): | 0.000 | Jarque-Bera (JB): | 298.036 |
| Skew: | 1.383 | Prob(JB): | 1.92e-65 |
| Kurtosis: | 6.314 | Cond. No. | 1.31e+03 |



Correlation report for pm25 (raw) measurements: sensor type dylos@BdP_8d5ba45f

with sds011@BdP_33040d54

Correlation details of project BdP sensor kit ID 8d5ba45f with project BdP sensor kit ID 33040d54

Date of correlation report: do aug 3 16:56:41 CEST 2017

From date 2017-07-30 upto 2017-08-03 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): sds011, dylos

Graphs based on data INFLUX from influxdb on server localhost as user teus:

Database table BdP_8d5ba45f sensor (column) pm25: 384 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm25: 384 db records, deleted 0 NaN records.

Collected 384 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 03 2017 00:00, interval timing 15m:0s.

Data from table/sheet BdP_33040d54, sensor (column) pm25:

number 384, min=405.57, max=5496.71

avg=1675.98, std dev=799.56

R-squared (R^2) with BdP_33040d54/pm25: 0.6591

Best fit linear single polynomial regression curve ($A_0 \cdot X^0 + A_1 \cdot X^1$):

BdP_8d5ba45f/pm25 (sds011)-> best fit coefficients:

1.132e+02, 2.281e-01

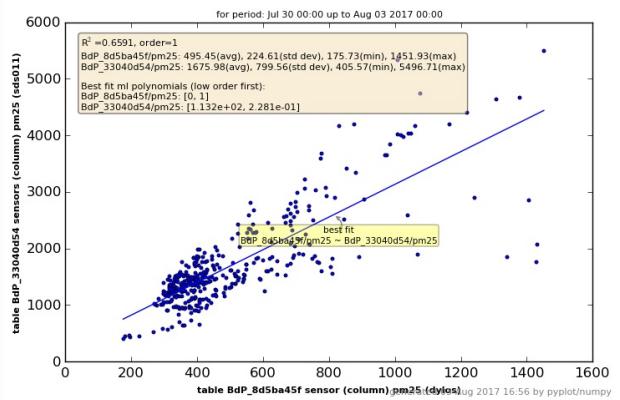
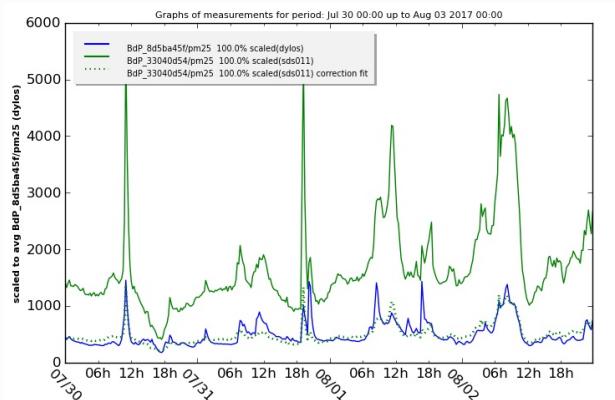
Statistical summary linear regression for BdP_8d5ba45f/pm25
with ['BdP_33040d54/pm25']:

OLS Regression Results

| | | | |
|--------------------------|-------------------|----------------------------|----------|
| Dep. Variable: | BdP_8d5ba45f/pm25 | R-squared: | 0.659 |
| Model: | OLS | Adj. R-squared: | 0.658 |
| Method: | Least Squares | F-statistic: | 738.6 |
| Date: | Thu, 03 Aug 2017 | Prob (F-statistic): | 2.71e-91 |
| Time: | 16:56:42 | Log-Likelihood: | -2417.4 |
| No. Observations: | 384 | AIC: | 4839. |
| Df Residuals: | 382 | BIC: | 4847. |
| Df Model: | 1 | | |

coefficient std error t P>|t| [95.0% Conf. Int.]
BdP_33040d54/pm25 113.2148 15.583 7.265 0.000 82.575 143.855

Omnibus: 282.985 Durbin-Watson: 0.426
Prob(Omnibus): 0.000 Jarque-Bera (JB): 4263.869
Skew: 2.994 Prob(JB): 0.00
Kurtosis: 18.187 Cond. No. 4.31e+03



Correlation report for pm25 (raw) measurements: sensor type dylos@BdP_8d5ba45f

with ppd42ns@BdP_33040d54

Correlation details of project BdP sensor kit ID 8d5ba45f with project BdP sensor kit ID 33040d54

Date of correlation report: do aug 3 16:56:43 CEST 2017

From date 2017-07-30 upto 2017-08-03 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): ppd42ns, dylos

Graphs based on data INFLUX from influxdb on server localhost as user teus:

Database table BdP_8d5ba45f sensor (column) pm25: 384 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm25_pcsqf: 384 db records, deleted 0 NaN records.

Collected 384 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 03 2017 00:00, interval timing 15m:0s.

Data from table/sheet BdP_33040d54, sensor (column) pm25_pcsqf:

number 384, min=2136.36, max=3071.67

avg=2401.09, std dev=137.70

R-squared (R^2) with BdP_33040d54/pm25_pcsqf: 0.3521

Best fit linear single polynomial regression curve ($A_0 \cdot X^0 + A_1 \cdot X^1$):

BdP_8d5ba45f/pm25 (ppd42ns)-> best fit coefficients:

-1.829e+03, 9.679e-01

Statistical summary linear regression for BdP_8d5ba45f/pm25
with ['BdP_33040d54/pm25_pcsqf']:

OLS Regression Results

| | | | |
|--------------------------|-------------------|----------------------------|----------|
| Dep. Variable: | BdP_8d5ba45f/pm25 | R-squared: | 0.352 |
| Model: | OLS | Adj. R-squared: | 0.350 |
| Method: | Least Squares | F-statistic: | 207.6 |
| Date: | Thu, 03 Aug 2017 | Prob (F-statistic): | 6.82e-38 |
| Time: | 16:56:44 | Log-Likelihood: | -2540.7 |
| No. Observations: | 384 | AIC: | 5085. |
| Df Residuals: | 382 | BIC: | 5093. |
| Df Model: | 1 | | |

coef std err t P>|t| [95.0% Conf. Int.]

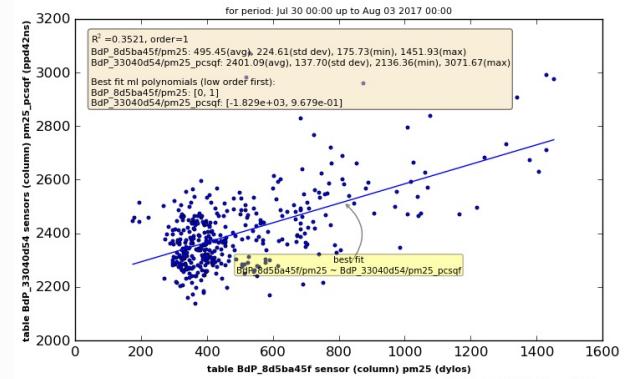
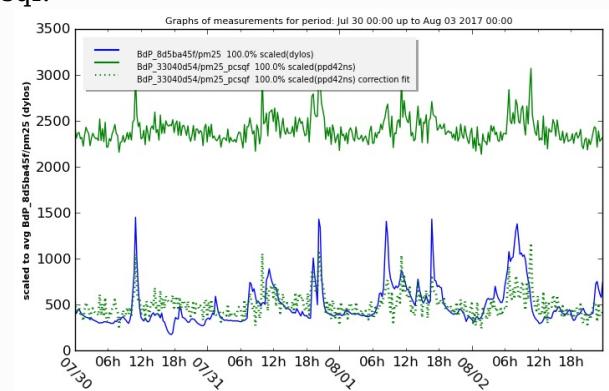
BdP_33040d54/pm25_pcsqf -1828.6153 161.567 -11.318 0.000 -2146.287 -1510.944

Omnibus: 57.680 Durbin-Watson: 0.672

Prob(Omnibus): 0.000 Jarque-Bera (JB): 106.921

Skew: 0.849 Prob(JB): 6.06e-24

Kurtosis: 4.950 Cond. No. 4.20e+04



Correlation report for pm25 (raw) measurements: sensor type dylos@BdP_8d5ba45f

with pms7003@BdP_33040d54

Correlation details of project BdP sensor kit ID 8d5ba45f with project BdP sensor kit ID 33040d54

Date of correlation report: do aug 3 16:56:45 CEST 2017

From date 2017-07-30 upto 2017-08-03 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): dylos, pms7003

Graphs based on data INFLUX from influxdb on server localhost as user teus:

Database table BdP_8d5ba45f sensor (column) pm25: 384 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm25_atm: 384 db records, deleted 0 NaN records.

Collected 384 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 03 2017 00:00, interval timing 15m:0s.

Data from table/sheet BdP_33040d54, sensor (column) pm25_atm:

number 384, min=100.60, max=13624.13

avg=2941.04, std dev=1721.03

R-squared (R^2) with BdP_33040d54/pm25_atm: 0.5870

Best fit linear single polynomial regression curve ($A_0 \cdot X^0 + A_1 \cdot X^1$):

BdP_8d5ba45f/pm25 (pms7003)-> best fit coefficients:

2.014e+02, 9.999e-02

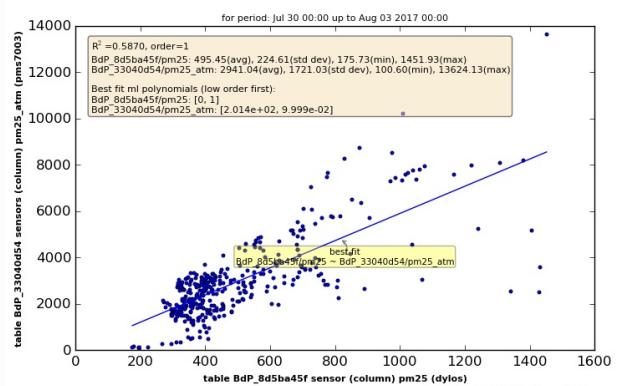
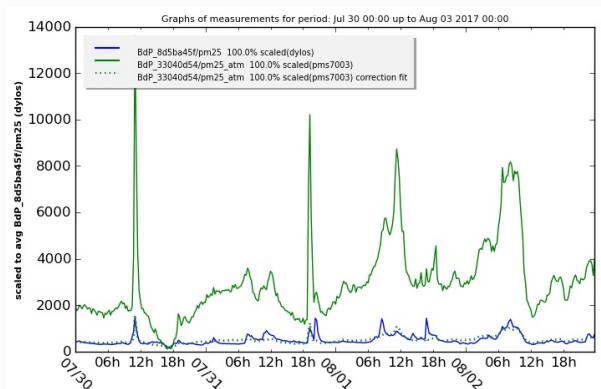
Statistical summary linear regression for BdP_8d5ba45f/pm25
with ['BdP_33040d54/pm25_atm']:

OLS Regression Results

| | | | |
|--------------------------|-------------------|----------------------------|----------|
| Dep. Variable: | BdP_8d5ba45f/pm25 | R-squared: | 0.587 |
| Model: | OLS | Adj. R-squared: | 0.586 |
| Method: | Least Squares | F-statistic: | 543.0 |
| Date: | Thu, 03 Aug 2017 | Prob (F-statistic): | 2.34e-75 |
| Time: | 16:56:46 | Log-Likelihood: | -2454.2 |
| No. Observations: | 384 | AIC: | 4912. |
| Df Residuals: | 382 | BIC: | 4920. |
| Df Model: | 1 | | |

coef std err t P>|t| [95.0% Conf. Int.]
BdP_33040d54/pm25_atm 201.3603 14.623 13.770 0.000 172.609 230.112

Omnibus: 267.183 Durbin-Watson: 0.412
Prob(Omnibus): 0.000 Jarque-Bera (JB): 3365.009
Skew: 2.832 Prob(JB): 0.00
Kurtosis: 16.351 Cond. No. 6.75e+03



Correlation report for pm25 (raw) measurements: sensor type sds011@BdP_3f18c330

with ppd42ns@BdP_3f18c330

Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 3f18c330

Date of correlation report: do aug 3 16:56:48 CEST 2017

From date 2017-07-30 upto 2017-08-03 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): sds011, ppd42ns

Graphs based on data INFLUX from influxdb on server localhost as user teus:

Database table BdP_3f18c330 sensor (column) pm25: 384 db records, deleted 0 NaN records.

Database table BdP_3f18c330 sensor (column) pm25_pcsqf: 384 db records, deleted 0 NaN records.

Collected 384 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 03 2017 00:00, interval timing 15m:0s.

Data from table/sheet BdP_3f18c330, sensor (column) pm25_pcsqf:

number 384, min=139.90, max=1198.20

avg=386.20, std dev=125.73

R-squared (R^2) with BdP_3f18c330/pm25_pcsqf: 0.0874

Best fit linear single polynomial regression curve ($A_0 \cdot X^0 + A_1 \cdot X^1$):

BdP_3f18c330/pm25 (ppd42ns)-> best fit coefficients:

7.515e+02, 1.726e+00

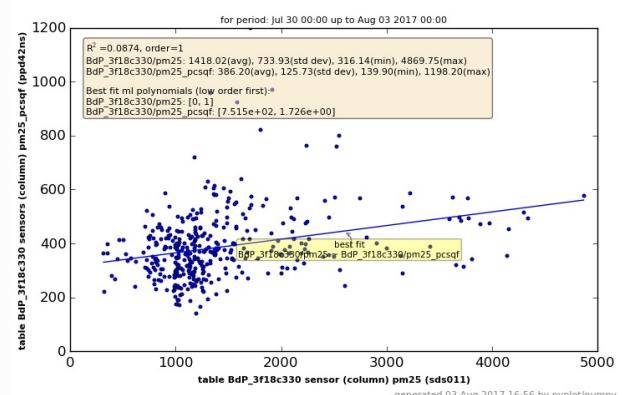
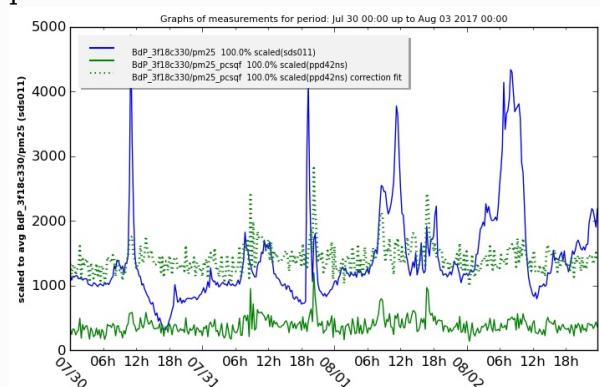
Statistical summary linear regression for BdP_3f18c330/pm25 with ['BdP_3f18c330/pm25_pcsqf']:

OLS Regression Results

| | | | |
|--------------------------|-------------------|----------------------------|----------|
| Dep. Variable: | BdP_3f18c330/pm25 | R-squared: | 0.087 |
| Model: | OLS | Adj. R-squared: | 0.085 |
| Method: | Least Squares | F-statistic: | 36.59 |
| Date: | Thu, 03 Aug 2017 | Prob (F-statistic): | 3.48e-09 |
| Time: | 16:56:48 | Log-Likelihood: | -3061.1 |
| No. Observations: | 384 | AIC: | 6126. |
| Df Residuals: | 382 | BIC: | 6134. |
| Df Model: | 1 | | |

| | coef | std err | t | P> t | [95.0% Conf. Int.] |
|-------------------------|----------|---------|-------|-------|--------------------|
| BdP_3f18c330/pm25_pcsqf | 751.5162 | 115.878 | 6.485 | 0.000 | 523.678 979.355 |

| Omnibus: | 162.806 | Durbin-Watson: | 0.253 |
|----------------|---------|-------------------|-----------|
| Prob(Omnibus): | 0.000 | Jarque-Bera (JB): | 560.347 |
| Skew: | 1.957 | Prob(JB): | 2.10e-122 |
| Kurtosis: | 7.439 | Cond. No. | 1.31e+03 |



Correlation report for pm25 (raw) measurements: sensor type sds011@BdP_3f18c330

with sds011@BdP_33040d54

Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 33040d54

Date of correlation report: do aug 3 16:56:50 CEST 2017

From date 2017-07-30 upto 2017-08-03 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): sds011

Graphs based on data INFLUX from influxdb on server localhost as user teus:

Database table BdP_3f18c330 sensor (column) pm25: 384 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm25: 384 db records, deleted 0 NaN records.

Collected 384 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 03 2017 00:00, interval timing 15m:0s.

Data from table/sheet BdP_33040d54, sensor (column) pm25:

number 384, min=405.57, max=5496.71

avg=1675.98, std dev=799.56

R-squared (R^2) with BdP_33040d54/pm25: 0.9866

Best fit linear single polynomial regression curve ($A_0 \cdot X^0 + A_1 \cdot X^1$):

BdP_3f18c330/pm25 (sds011)-> best fit coefficients:

-1.100e+02, 9.117e-01

Statistical summary linear regression for BdP_3f18c330/pm25
with ['BdP_33040d54/pm25']:

OLS Regression Results

| Dep. Variable: | BdP_3f18c330/pm25 | R-squared: | 0.987 |
|-------------------|-------------------|---------------------|-----------|
| Model: | OLS | Adj. R-squared: | 0.987 |
| Method: | Least Squares | F-statistic: | 2.813e+04 |
| Date: | Thu, 03 Aug 2017 | Prob (F-statistic): | 0.00 |
| Time: | 16:56:50 | Log-Likelihood: | -2250.7 |
| No. Observations: | 384 | AIC: | 4505. |
| Df Residuals: | 382 | BIC: | 4513. |
| Df Model: | 1 | | |

coef std err t P>|t| [95.0% Conf. Int.]

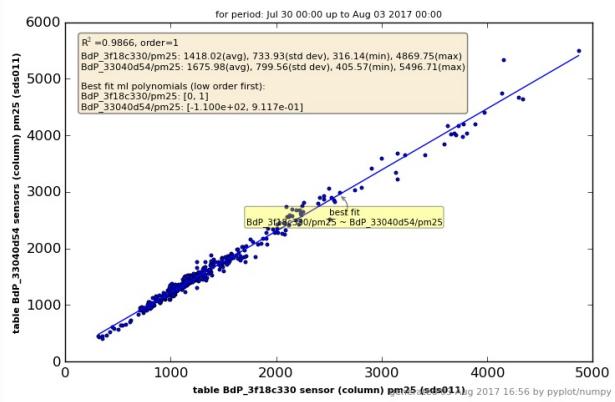
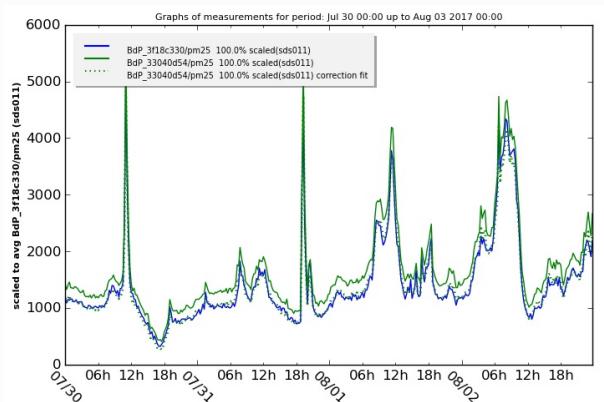
BdP_33040d54/pm25 -110.0277 10.095 -10.899 0.000 -129.877 -90.179

Omnibus: 70.801 Durbin-Watson: 1.367

Prob(Omnibus): 0.000 Jarque-Bera (JB): 712.142

Skew: -0.389 Prob(JB): 2.29e-155

Kurtosis: 9.626 Cond. No. 4.31e+03



Correlation report for pm25 (raw) measurements: sensor type sds011@BdP_3f18c330

with ppd42ns@BdP_33040d54

Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 33040d54

Date of correlation report: do aug 3 16:56:52 CEST 2017

From date 2017-07-30 upto 2017-08-03 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): sds011, ppd42ns

Graphs based on data INFLUX from influxdb on server localhost as user teus:

Database table BdP_3f18c330 sensor (column) pm25: 384 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm25_pcsqf: 384 db records, deleted 0 NaN records.

Collected 384 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 03 2017 00:00, interval timing 15m:0s.

Data from table/sheet BdP_33040d54, sensor (column) pm25_pcsqf:

number 384, min=2136.36, max=3071.67

avg=2401.09, std dev=137.70

R-squared (R^2) with BdP_33040d54/pm25_pcsqf: 0.1800

Best fit linear single polynomial regression curve ($A_0 \cdot X^0 + A_1 \cdot X^1$):

BdP_3f18c330/pm25 (ppd42ns)-> best fit coefficients:

-4.012e+03, 2.261e+00

Statistical summary linear regression for BdP_3f18c330/pm25
with ['BdP_33040d54/pm25_pcsqf']:

OLS Regression Results

| | | | |
|--------------------------|-------------------|----------------------------|----------|
| Dep. Variable: | BdP_3f18c330/pm25 | R-squared: | 0.180 |
| Model: | OLS | Adj. R-squared: | 0.178 |
| Method: | Least Squares | F-statistic: | 83.87 |
| Date: | Thu, 03 Aug 2017 | Prob (F-statistic): | 3.27e-18 |
| Time: | 16:56:52 | Log-Likelihood: | -3040.6 |
| No. Observations: | 384 | AIC: | 6085. |
| Df Residuals: | 382 | BIC: | 6093. |
| Df Model: | 1 | | |

coef std err t P>|t| [95.0% Conf. Int.]

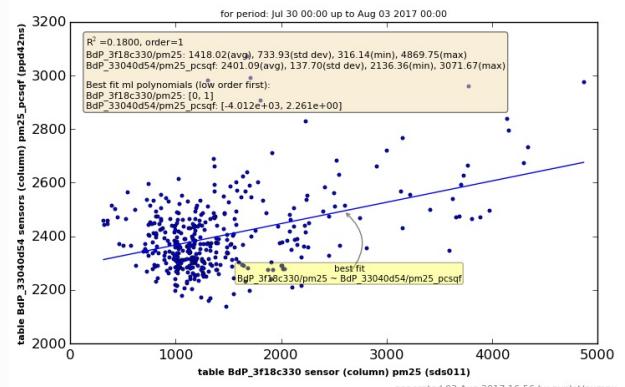
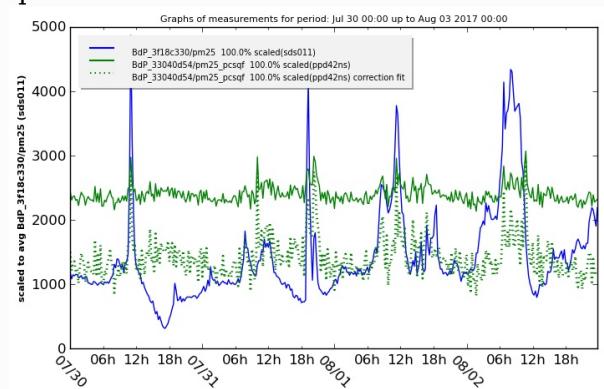
BdP_33040d54/pm25_pcsqf -4011.9092 593.901 -6.755 0.000 -5179.633 -2844.186

Omnibus: 88.119 Durbin-Watson: 0.296

Prob(Omnibus): 0.000 Jarque-Bera (JB): 174.102

Skew: 1.228 Prob(JB): 1.56e-38

Kurtosis: 5.202 Cond. No. 4.20e+04



Correlation report for pm25 (raw) measurements: sensor type sds011@BdP_3f18c330

with pms7003@BdP_33040d54

Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 33040d54

Date of correlation report: do aug 3 16:56:54 CEST 2017

From date 2017-07-30 upto 2017-08-03 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): sds011, pms7003

Graphs based on data INFLUX from influxdb on server localhost as user teus:

Database table BdP_3f18c330 sensor (column) pm25: 384 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm25_atm: 384 db records, deleted 0 NaN records.

Collected 384 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 03 2017 00:00, interval timing 15m:0s.

Data from table/sheet BdP_33040d54, sensor (column) pm25_atm:

number 384, min=100.60, max=13624.13

avg=2941.04, std dev=1721.03

R-squared (R^2) with BdP_33040d54/pm25_atm: 0.9193

Best fit linear single polynomial regression curve ($A_0 \cdot X^0 + A_1 \cdot X^1$):

BdP_3f18c330/pm25 (pms7003)-> best fit coefficients:

2.155e+02, 4.089e-01

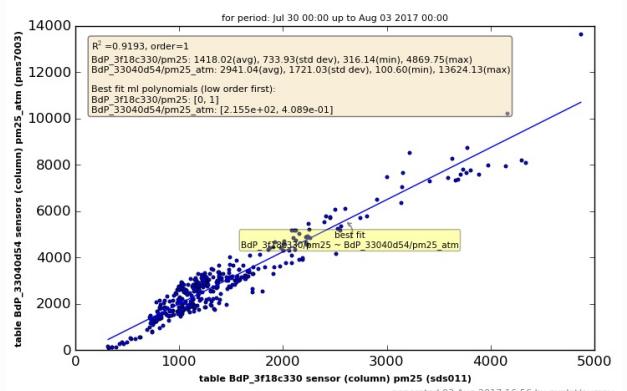
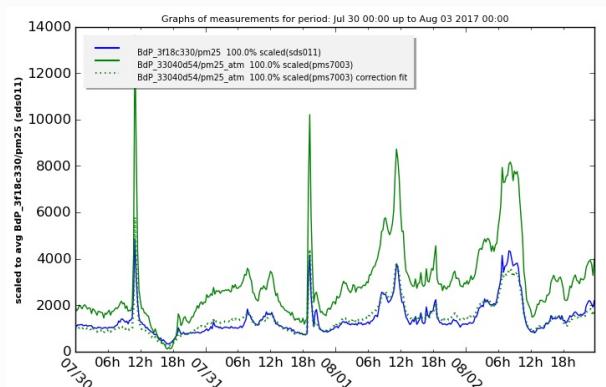
Statistical summary linear regression for BdP_3f18c330/pm25 with ['BdP_33040d54/pm25_atm']:

OLS Regression Results

| | | | |
|--------------------------|-------------------|----------------------------|-----------|
| Dep. Variable: | BdP_3f18c330/pm25 | R-squared: | 0.919 |
| Model: | OLS | Adj. R-squared: | 0.919 |
| Method: | Least Squares | F-statistic: | 4351. |
| Date: | Thu, 03 Aug 2017 | Prob (F-statistic): | 7.11e-211 |
| Time: | 16:56:54 | Log-Likelihood: | -2595.4 |
| No. Observations: | 384 | AIC: | 5195. |
| Df Residuals: | 382 | BIC: | 5203. |
| Df Model: | 1 | | |

table BdP_33040d54 sensors (column) pm25_atm (pms7003)
BdP_33040d54/pm25_atm 215.5003 21.123 10.202 0.000 173.969 257.031

Omnibus: 21.481 Durbin-Watson: 0.425
Prob(Omnibus): 0.000 Jarque-Bera (JB): 39.156
Skew: 0.342 Prob(JB): 3.14e-09
Kurtosis: 4.407 Cond. No. 6.75e+03



Correlation report for pm25 (raw) measurements: sensor type ppd42ns@BdP_3f18c330

with sds011@BdP_33040d54

Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 33040d54

Date of correlation report: do aug 3 16:56:56 CEST 2017

From date 2017-07-30 upto 2017-08-03 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): sds011, ppd42ns

Graphs based on data INFLUX from influxdb on server localhost as user teus:

Database table BdP_3f18c330 sensor (column) pm25_pcsqf: 384 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm25: 384 db records, deleted 0 NaN records.

Collected 384 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 03 2017 00:00, interval timing 15m:0s.

Data from table/sheet BdP_33040d54, sensor (column) pm25:

number 384, min=405.57, max=5496.71

avg=1675.98, std dev=799.56

R-squared (R^2) with BdP_33040d54/pm25: 0.0761

Best fit linear single polynomial regression curve ($A_0 \cdot X^0 + A_1 \cdot X^1$):

BdP_3f18c330/pm25_pcsqf (sds011)-> best fit coefficients:

3.135e+02, 4.337e-02

Statistical summary linear regression for
BdP_3f18c330/pm25_pcsqf with ['BdP_33040d54/pm25']:

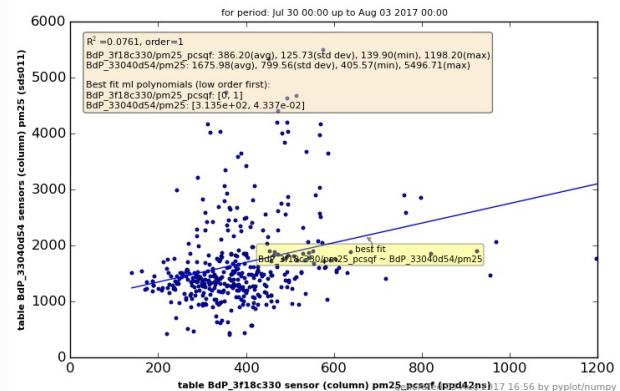
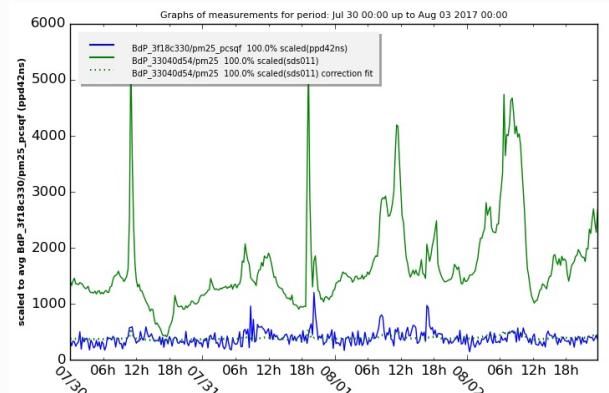
OLS Regression Results

| Dep. Variable: | BdP_3f18c330/pm25_pcsqf | R-squared: | 0.076 |
|-------------------|-------------------------|---------------------|----------|
| Model: | OLS | Adj. R-squared: | 0.074 |
| Method: | Least Squares | F-statistic: | 31.45 |
| Date: | Thu, 03 Aug 2017 | Prob (F-statistic): | 3.93e-08 |
| Time: | 16:56:57 | Log-Likelihood: | -2386.0 |
| No. Observations: | 384 | AIC: | 4776. |
| Df Residuals: | 382 | BIC: | 4784. |
| Df Model: | 1 | | |

coef std err t P>|t| [95.0% Conf. Int.]

BdP_33040d54/pm25 313.5167 14.361 21.831 0.000 285.280 341.753

Omnibus: 180.901 Durbin-Watson: 1.292
Prob(Omnibus): 0.000 Jarque-Bera (JB): 1214.963
Skew: 1.884 Prob(JB): 1.49e-264
Kurtosis: 10.857 Cond. No. 4.31e+03



Correlation report for pm25 (raw) measurements: sensor type ppd42ns@BdP_3f18c330

with ppd42ns@BdP_33040d54

Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 33040d54

Date of correlation report: do aug 3 16:56:58 CEST 2017

From date 2017-07-30 upto 2017-08-03 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): ppd42ns

Graphs based on data INFLUX from influxdb on server localhost as user teus:

Database table BdP_3f18c330 sensor (column) pm25_pcsqf: 384 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm25_pcsqf: 384 db records, deleted 0 NaN records.

Collected 384 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 03 2017 00:00, interval timing 15m:0s.

Data from table/sheet BdP_33040d54, sensor (column) pm25_pcsqf:

number 384, min=2136.36, max=3071.67

avg=2401.09, std dev=137.70

R-squared (R^2) with BdP_33040d54/pm25_pcsqf: 0.1997

Best fit linear single polynomial regression curve ($A_0 \cdot X^0 + A_1 \cdot X^1$):

BdP_3f18c330/pm25_pcsqf (ppd42ns)-> best fit coefficients:

-5.936e+02, 4.081e-01

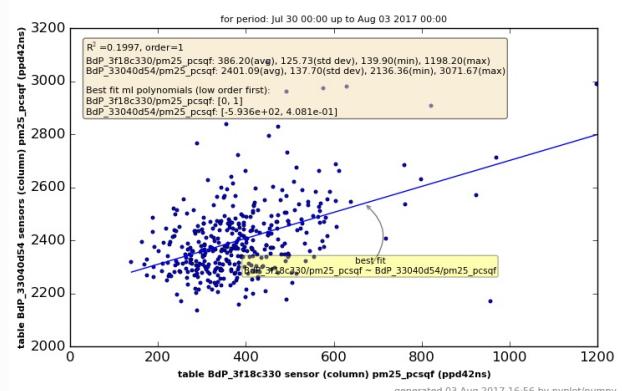
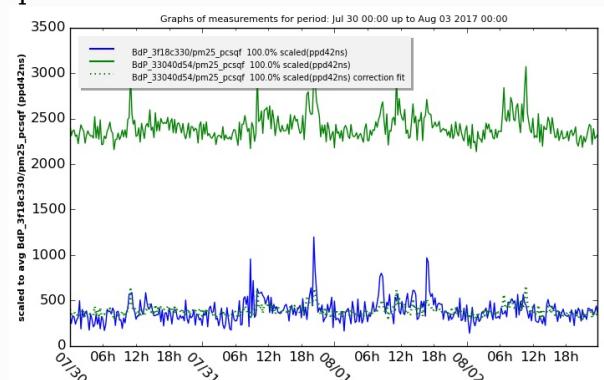
Statistical summary linear regression for
BdP_3f18c330/pm25_pcsqf with ['BdP_33040d54/pm25_pcsqf']:

OLS Regression Results

| | | | |
|--------------------------|-------------------------|----------------------------|----------|
| Dep. Variable: | BdP_3f18c330/pm25_pcsqf | R-squared: | 0.200 |
| Model: | OLS | Adj. R-squared: | 0.198 |
| Method: | Least Squares | F-statistic: | 95.34 |
| Date: | Thu, 03 Aug 2017 | Prob (F-statistic): | 2.98e-20 |
| Time: | 16:56:59 | Log-Likelihood: | -2358.4 |
| No. Observations: | 384 | AIC: | 4721. |
| Df Residuals: | 382 | BIC: | 4729. |
| Df Model: | 1 | | |

| coef | std err | t | P> t [95.0% Conf. Int.] |
|-------------------------|-----------|---------|--------------------------------|
| BdP_33040d54/pm25_pcsqf | -593.6139 | 100.514 | -5.906 0.000 -791.245 -395.983 |

| | | | |
|-----------------------|---------|--------------------------|-----------|
| Omnibus: | 124.842 | Durbin-Watson: | 1.704 |
| Prob(Omnibus): | 0.000 | Jarque-Bera (JB): | 556.778 |
| Skew: | 1.341 | Prob(JB): | 1.25e-121 |
| Kurtosis: | 8.254 | Cond. No. | 4.20e+04 |



Correlation report for pm25 (raw) measurements: sensor type ppd42ns@BdP_3f18c330

with pms7003@BdP_33040d54

Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 33040d54

Date of correlation report: do aug 3 16:57:00 CEST 2017

From date 2017-07-30 upto 2017-08-03 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): ppd42ns, pms7003

Graphs based on data INFLUX from influxdb on server localhost as user teus:

Database table BdP_3f18c330 sensor (column) pm25_pcsqf: 384 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm25_atm: 384 db records, deleted 0 NaN records.

Collected 384 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 03 2017 00:00, interval timing 15m:0s.

Data from table/sheet BdP_33040d54, sensor (column) pm25_atm:

number 384, min=100.60, max=13624.13

avg=2941.04, std dev=1721.03

R-squared (R^2) with BdP_33040d54/pm25_atm: 0.0627

Best fit linear single polynomial regression curve ($A_0 \cdot X^0 + A_1 \cdot X^1$):

BdP_3f18c330/pm25_pcsqf (pms7003)-> best fit coefficients:

3.324e+02, 1.830e-02

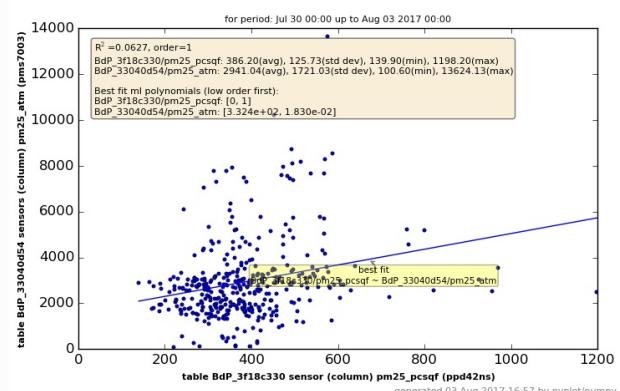
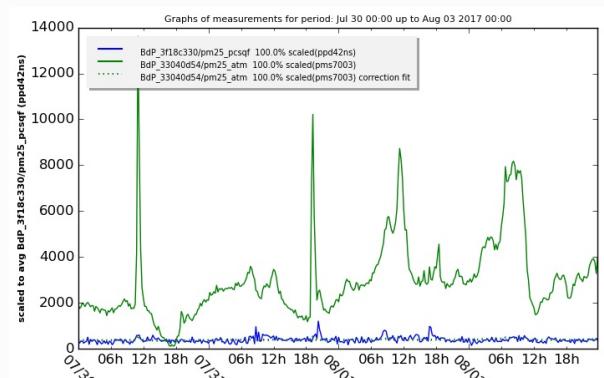
Statistical summary linear regression for
BdP_3f18c330/pm25_pcsqf with ['BdP_33040d54/pm25_atm']:

OLS Regression Results

| Dep. Variable: | BdP_3f18c330/pm25_pcsqf | R-squared: | 0.063 |
|-------------------|-------------------------|---------------------|----------|
| Model: | OLS | Adj. R-squared: | 0.060 |
| Method: | Least Squares | F-statistic: | 25.56 |
| Date: | Thu, 03 Aug 2017 | Prob (F-statistic): | 6.67e-07 |
| Time: | 16:57:01 | Log-Likelihood: | -2388.8 |
| No. Observations: | 384 | AIC: | 4782. |
| Df Residuals: | 382 | BIC: | 4789. |
| Df Model: | 1 | | |

coef std err t P>|t| [95.0% Conf. Int.]
BdP_33040d54/pm25_atm 332.3958 12.331 26.955 0.000 308.150 356.642

Omnibus: 183.984 Durbin-Watson: 1.282
Prob(Omnibus): 0.000 Jarque-Bera (JB): 1277.767
Skew: 1.911 Prob(JB): 3.44e-278
Kurtosis: 11.078 Cond. No. 6.75e+03



Correlation report for pm25 (raw) measurements: sensor type sds011@BdP_33040d54

with ppd42ns@BdP_33040d54

Correlation details of project BdP sensor kit ID 33040d54 with project BdP sensor kit ID 33040d54

Date of correlation report: do aug 3 16:57:02 CEST 2017

From date 2017-07-30 upto 2017-08-03 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): sds011, ppd42ns

Graphs based on data INFLUX from influxdb on server localhost as user teus:

Database table BdP_33040d54 sensor (column) pm25: 384 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm25_pcsqf: 384 db records, deleted 0 NaN records.

Collected 384 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 03 2017 00:00, interval timing 15m:0s.

Data from table/sheet BdP_33040d54, sensor (column) pm25_pcsqf:

number 384, min=2136.36, max=3071.67

avg=2401.09, std dev=137.70

R-squared (R^2) with BdP_33040d54/pm25_pcsqf: 0.1669

Best fit linear single polynomial regression curve ($A_0 \cdot X^0 + A_1 \cdot X^1$):

BdP_33040d54/pm25 (ppd42ns)-> best fit coefficients:

-4.021e+03, 2.372e+00

Statistical summary linear regression for BdP_33040d54/pm25
with ['BdP_33040d54/pm25_pcsqf']:

OLS Regression Results

| | | | |
|--------------------------|-------------------|----------------------------|----------|
| Dep. Variable: | BdP_33040d54/pm25 | R-squared: | 0.167 |
| Model: | OLS | Adj. R-squared: | 0.165 |
| Method: | Least Squares | F-statistic: | 76.55 |
| Date: | Thu, 03 Aug 2017 | Prob (F-statistic): | 6.97e-17 |
| Time: | 16:57:03 | Log-Likelihood: | -3076.5 |
| No. Observations: | 384 | AIC: | 6157. |
| Df Residuals: | 382 | BIC: | 6165. |
| Df Model: | 1 | | |

coef std err t P>|t| [95.0% Conf. Int.]

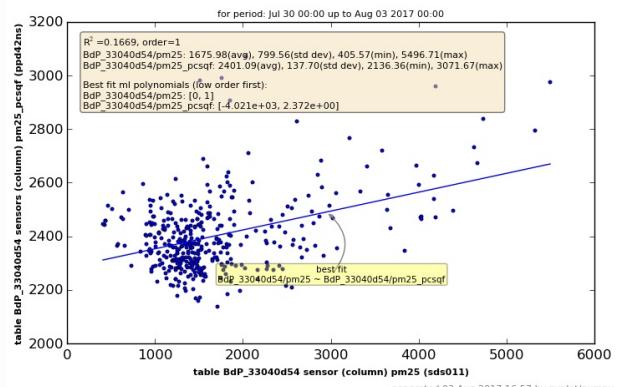
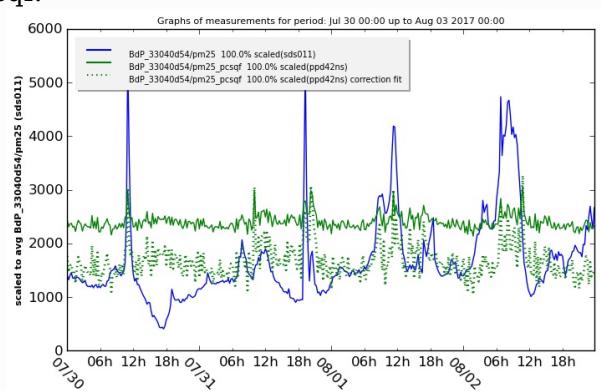
BdP_33040d54/pm25_pcsqf -4020.5363 652.156 -6.165 0.000 -5302.801 -2738.272

Omnibus: 77.040 Durbin-Watson: 0.303

Prob(Omnibus): 0.000 Jarque-Bera (JB): 139.977

Skew: 1.120 Prob(JB): 4.02e-31

Kurtosis: 4.930 Cond. No. 4.20e+04



Correlation report for pm25 (raw) measurements: sensor type sds011@BdP_33040d54

with pms7003@BdP_33040d54

Correlation details of project BdP sensor kit ID 33040d54 with project BdP sensor kit ID 33040d54

Date of correlation report: do aug 3 16:57:04 CEST 2017

From date 2017-07-30 upto 2017-08-03 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): sds011, pms7003

Graphs based on data INFLUX from influxdb on server localhost as user teus:

Database table BdP_33040d54 sensor (column) pm25: 384 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm25_atm: 384 db records, deleted 0 NaN records.

Collected 384 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 03 2017 00:00, interval timing 15m:0s.

Data from table/sheet BdP_33040d54, sensor (column) pm25_atm:

number 384, min=100.60, max=13624.13

avg=2941.04, std dev=1721.03

R-squared (R^2) with BdP_33040d54/pm25_atm: 0.9441

Best fit linear single polynomial regression curve ($A_0 \cdot X^0 + A_1 \cdot X^1$):

BdP_33040d54/pm25 (pms7003)-> best fit coefficients:

3.484e+02, 4.514e-01

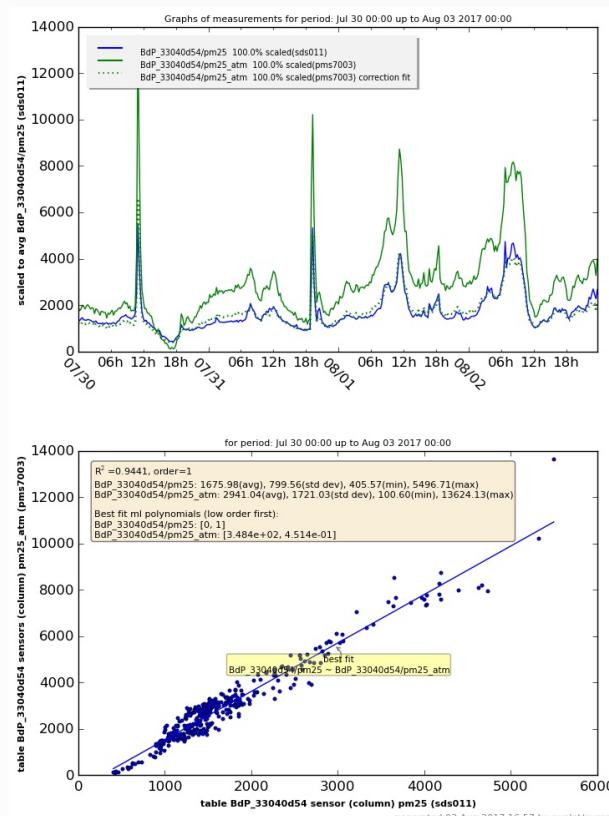
Statistical summary linear regression for BdP_33040d54/pm25 with ['BdP_33040d54/pm25_atm']:

OLS Regression Results

| Dep. Variable: | BdP_33040d54/pm25 | R-squared: | 0.944 |
|-------------------|-------------------|---------------------|-----------|
| Model: | OLS | Adj. R-squared: | 0.944 |
| Method: | Least Squares | F-statistic: | 6448. |
| Date: | Thu, 03 Aug 2017 | Prob (F-statistic): | 2.62e-241 |
| Time: | 16:57:05 | Log-Likelihood: | -2557.9 |
| No. Observations: | 384 | AIC: | 5120. |
| Df Residuals: | 382 | BIC: | 5128. |
| Df Model: | 1 | | |

table BdP_33040d54 sensors (column) pm25_atm (pms7003)
BdP_33040d54/pm25_atm 348.3652 19.155 18.186 0.000 310.702 386.028

Omnibus: 29.484 Durbin-Watson: 0.534
Prob(Omnibus): 0.000 Jarque-Bera (JB): 113.270
Skew: 0.119 Prob(JB): 2.53e-25
Kurtosis: 5.650 Cond. No. 6.75e+03



Correlation report for pm25 (raw) measurements: sensor type ppd42ns@BdP_33040d54

with pms7003@BdP_33040d54

Correlation details of project BdP sensor kit ID 33040d54 with project BdP sensor kit ID 33040d54

Date of correlation report: do aug 3 16:57:06 CEST 2017

From date 2017-07-30 upto 2017-08-03 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): ppd42ns, pms7003

Graphs based on data INFLUX from influxdb on server localhost as user teus:

Database table BdP_33040d54 sensor (column) pm25_pcsqf: 384 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm25_atm: 384 db records, deleted 0 NaN records.

Collected 384 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 03 2017 00:00, interval timing 15m:0s.

Data from table/sheet BdP_33040d54, sensor (column) pm25_atm:

number 384, min=100.60, max=13624.13

avg=2941.04, std dev=1721.03

R-squared (R^2) with BdP_33040d54/pm25_atm: 0.1448

Best fit linear single polynomial regression curve ($A_0 \cdot X^0 + A_1 \cdot X^1$):

BdP_33040d54/pm25_pcsqf (pms7003)-> best fit coefficients:

2.312e+03, 3.045e-02

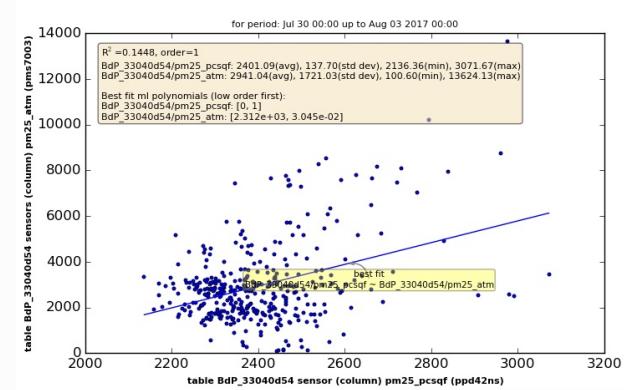
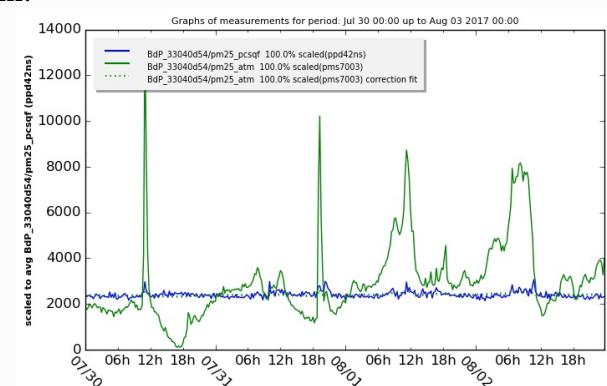
Statistical summary linear regression for
BdP_33040d54/pm25_pcsqf with ['BdP_33040d54/pm25_atm']:

OLS Regression Results

| | | | |
|--------------------------|-------------------------|----------------------------|----------|
| Dep. Variable: | BdP_33040d54/pm25_pcsqf | R-squared: | 0.145 |
| Model: | OLS | Adj. R-squared: | 0.143 |
| Method: | Least Squares | F-statistic: | 64.68 |
| Date: | Thu, 03 Aug 2017 | Prob (F-statistic): | 1.12e-14 |
| Time: | 16:57:07 | Log-Likelihood: | -2406.1 |
| No. Observations: | 384 | AIC: | 4816. |
| Df Residuals: | 382 | BIC: | 4824. |
| Df Model: | 1 | | |

| | coef | std err | t | P> t [95.0% Conf. Int.] |
|------------------------------|-----------|---------|---------|--------------------------|
| BdP_33040d54/pm25_atm | 2311.5464 | 12.900 | 179.189 | 0.000 2286.182 2336.910 |

| | | | |
|-----------------------|---------|--------------------------|----------|
| Omnibus: | 110.107 | Durbin-Watson: | 1.206 |
| Prob(Omnibus): | 0.000 | Jarque-Bera (JB): | 349.377 |
| Skew: | 1.293 | Prob(JB): | 1.36e-76 |
| Kurtosis: | 6.892 | Cond. No. | 6.75e+03 |



Correlation report for temp (raw) measurements: sensor type dht22@BdP_8d5ba45f

with bme280@BdP_8d5ba45f

Correlation details of project BdP sensor kit ID 8d5ba45f with project BdP sensor kit ID 8d5ba45f

Date of correlation report: do aug 3 16:57:09 CEST 2017

From date 2017-07-30 upto 2017-08-03 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): bme280, dht22

Graphs based on data INFLUX from influxdb on server localhost as user teus:

Database table BdP_8d5ba45f sensor (column) temp: 384 db records, deleted 0 NaN records.

Database table BdP_8d5ba45f sensor (column) temp: 384 db records, deleted 0 NaN records.

Collected 384 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 03 2017 00:00, interval timing 15m:0s.

Data from table/sheet BdP_8d5ba45f, sensor (column) temp:

number 384, min=27.10, max=31.92

avg=29.42, std dev= 1.11

R-squared (R^2) with BdP_8d5ba45f/temp: 0.9526

Best fit linear single polynomial regression curve ($A_0 * X^0 + A_1 * X^1$):

BdP_8d5ba45f/temp (bme280)-> best fit coefficients:

-3.947e+00, 1.075e+00

Statistical summary linear regression for BdP_8d5ba45f/temp with ['BdP_8d5ba45f/temp']:

OLS Regression Results

| Dep. Variable: | BdP_8d5ba45f/temp | R-squared: | 0.953 |
|-------------------|-------------------|---------------------|-----------|
| Model: | OLS | Adj. R-squared: | 0.953 |
| Method: | Least Squares | F-statistic: | 7682. |
| Date: | Thu, 03 Aug 2017 | Prob (F-statistic): | 4.43e-255 |
| Time: | 16:57:09 | Log-Likelihood: | -36.819 |
| No. Observations: | 384 | AIC: | 77.64 |
| Df Residuals: | 382 | BIC: | 85.54 |
| Df Model: | 1 | | |

coefficient std err t P>|t| [95.0% Conf. Int.]

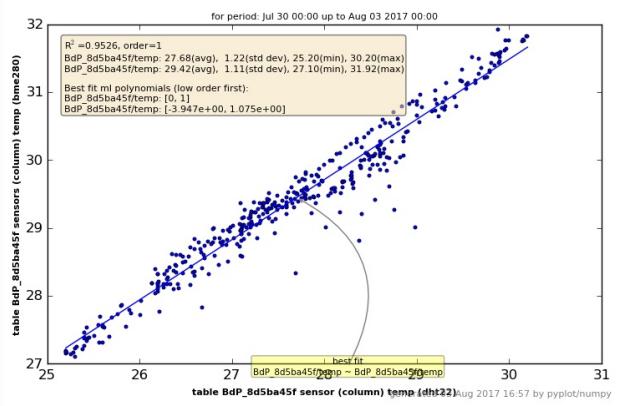
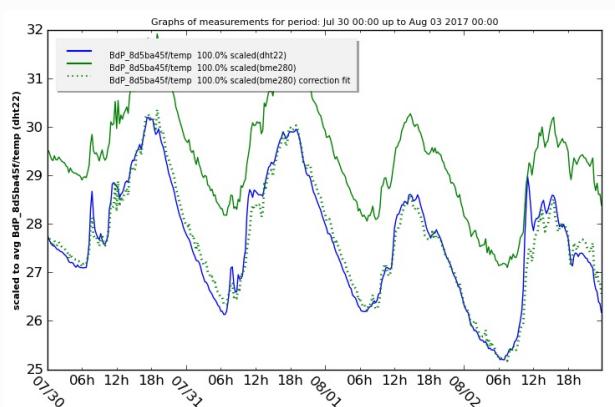
BdP_8d5ba45f/temp -3.9468 0.361 -10.931 0.000 -4.657 -3.237

Omnibus: 193.744 Durbin-Watson: 0.263

Prob(Omnibus): 0.000 Jarque-Bera (JB): 1356.374

Skew: 2.037 Prob(JB): 2.93e-295

Kurtosis: 11.256 Cond. No. 781.



Correlation report for temp (raw) measurements: sensor type dht22@BdP_8d5ba45f

with dht22@BdP_3f18c330

Correlation details of project BdP sensor kit ID 8d5ba45f with project BdP sensor kit ID 3f18c330

Date of correlation report: do aug 3 16:57:11 CEST 2017

From date 2017-07-30 upto 2017-08-03 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): dht22

Graphs based on data INFLUX from influxdb on server localhost as user teus:

Database table BdP_8d5ba45f sensor (column) temp: 384 db records, deleted 0 NaN records.

Database table BdP_3f18c330 sensor (column) temp: 384 db records, deleted 0 NaN records.

Collected 384 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 03 2017 00:00, interval timing 15m:0s.

Data from table/sheet BdP_3f18c330, sensor (column) temp:

number 384, min=27.30, max=31.98

avg=29.51, std dev= 1.09

R-squared (R^2) with BdP_3f18c330/temp: 0.9072

Best fit linear single polynomial regression curve ($A_0 \cdot X^0 + A_1 \cdot X^1$):

BdP_8d5ba45f/temp (dht22)-> best fit coefficients:

-3.837e+00, 1.068e+00

Statistical summary linear regression for BdP_8d5ba45f/temp with ['BdP_3f18c330/temp']:

OLS Regression Results

| Dep. Variable: | BdP_8d5ba45f/temp | R-squared: | 0.907 |
|-------------------|-------------------|---------------------|-----------|
| Model: | OLS | Adj. R-squared: | 0.907 |
| Method: | Least Squares | F-statistic: | 3733. |
| Date: | Thu, 03 Aug 2017 | Prob (F-statistic): | 2.91e-199 |
| Time: | 16:57:11 | Log-Likelihood: | -165.99 |
| No. Observations: | 384 | AIC: | 336.0 |
| Df Residuals: | 382 | BIC: | 343.9 |
| Df Model: | 1 | | |

coefficient std err t P>|t| [95.0% Conf. Int.]

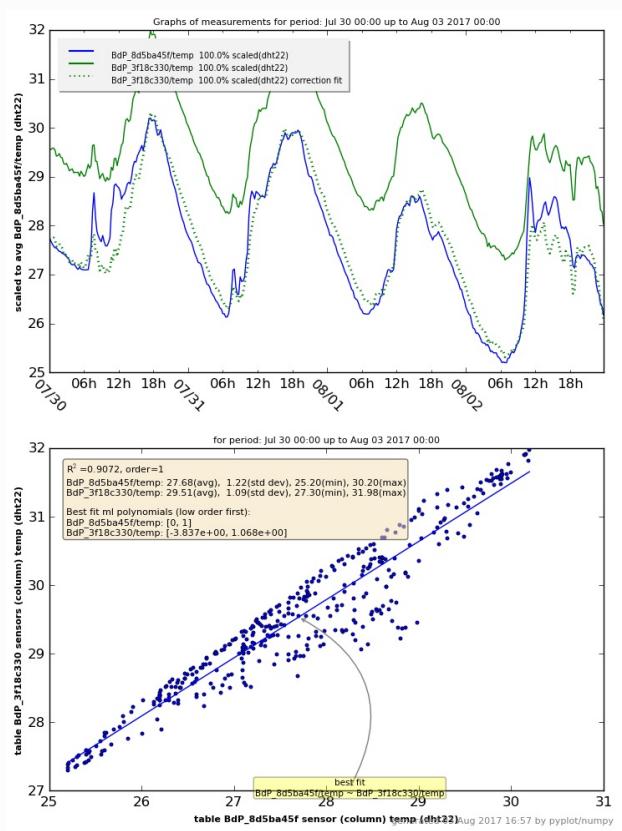
BdP_3f18c330/temp -3.8374 0.516 -7.435 0.000 -4.852 -2.823

Omnibus: 89.958 Durbin-Watson: 0.083

Prob(Omnibus): 0.000 Jarque-Bera (JB): 157.895

Skew: 1.345 Prob(JB): 5.17e-35

Kurtosis: 4.621 Cond. No. 800.



Correlation report for temp (raw) measurements: sensor type dht22@BdP_8d5ba45f

with bme280@BdP_3f18c330

Correlation details of project BdP sensor kit ID 8d5ba45f with project BdP sensor kit ID 3f18c330

Date of correlation report: do aug 3 16:57:13 CEST 2017

From date 2017-07-30 upto 2017-08-03 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): bme280, dht22

Graphs based on data INFLUX from influxdb on server localhost as user teus:

Database table BdP_8d5ba45f sensor (column) temp: 384 db records, deleted 0 NaN records.

Database table BdP_3f18c330 sensor (column) temp: 384 db records, deleted 0 NaN records.

Collected 384 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 03 2017 00:00, interval timing 15m:0s.

Data from table/sheet BdP_3f18c330, sensor (column) temp:

number 384, min=28.79, max=33.73

avg=31.12, std dev= 1.14

R-squared (R^2) with BdP_3f18c330/temp: 0.8780

Best fit linear single polynomial regression curve ($A_0 * X^0 + A_1 * X^1$):

BdP_8d5ba45f/temp (bme280)-> best fit coefficients:

-3.719e+00, 1.009e+00

Statistical summary linear regression for BdP_8d5ba45f/temp with ['BdP_3f18c330/temp']:

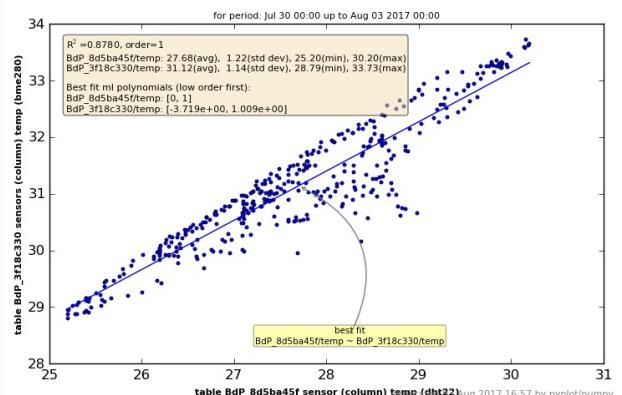
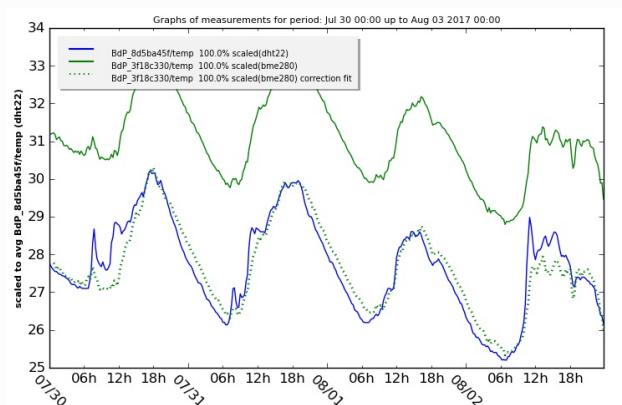
OLS Regression Results

| | | | |
|--------------------------|-------------------|----------------------------|-----------|
| Dep. Variable: | BdP_8d5ba45f/temp | R-squared: | 0.878 |
| Model: | OLS | Adj. R-squared: | 0.878 |
| Method: | Least Squares | F-statistic: | 2750. |
| Date: | Thu, 03 Aug 2017 | Prob (F-statistic): | 1.28e-176 |
| Time: | 16:57:14 | Log-Likelihood: | -218.38 |
| No. Observations: | 384 | AIC: | 440.8 |
| Df Residuals: | 382 | BIC: | 448.7 |
| Df Model: | 1 | | |

coef std err t P>|t| [95.0% Conf. Int.]

BdP_3f18c330/temp -3.7191 0.599 -6.208 0.000 -4.897 -2.541

| | | | |
|-----------------------|---------|--------------------------|----------|
| Omnibus: | 102.961 | Durbin-Watson: | 0.088 |
| Prob(Omnibus): | 0.000 | Jarque-Bera (JB): | 210.864 |
| Skew: | 1.420 | Prob(JB): | 1.63e-46 |
| Kurtosis: | 5.262 | Cond. No. | 854. |



Correlation report for temp (raw) measurements: sensor type bme280@BdP_8d5ba45f

with dht22@BdP_3f18c330

Correlation details of project BdP sensor kit ID 8d5ba45f with project BdP sensor kit ID 3f18c330

Date of correlation report: do aug 3 16:57:15 CEST 2017

From date 2017-07-30 upto 2017-08-03 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): bme280, dht22

Graphs based on data INFLUX from influxdb on server localhost as user teus:

Database table BdP_8d5ba45f sensor (column) temp: 384 db records, deleted 0 NaN records.

Database table BdP_3f18c330 sensor (column) temp: 384 db records, deleted 0 NaN records.

Collected 384 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 03 2017 00:00, interval timing 15m:0s.

Data from table/sheet BdP_3f18c330, sensor (column) temp:

number 384, min=27.30, max=31.98

avg=29.51, std dev= 1.09

R-squared (R^2) with BdP_3f18c330/temp: 0.9396

Best fit linear single polynomial regression curve ($A_0 \cdot X^0 + A_1 \cdot X^1$):

BdP_8d5ba45f/temp (dht22)-> best fit coefficients:

2.974e-01, 9.869e-01

Statistical summary linear regression for BdP_8d5ba45f/temp with ['BdP_3f18c330/temp']:

OLS Regression Results

| | | | |
|--------------------------|-------------------|----------------------------|-----------|
| Dep. Variable: | BdP_8d5ba45f/temp | R-squared: | 0.940 |
| Model: | OLS | Adj. R-squared: | 0.939 |
| Method: | Least Squares | F-statistic: | 5944. |
| Date: | Thu, 03 Aug 2017 | Prob (F-statistic): | 6.07e-235 |
| Time: | 16:57:16 | Log-Likelihood: | -46.441 |
| No. Observations: | 384 | AIC: | 96.88 |
| Df Residuals: | 382 | BIC: | 104.8 |
| Df Model: | 1 | | |

coef std err t P>|t| [95.0% Conf. Int.]

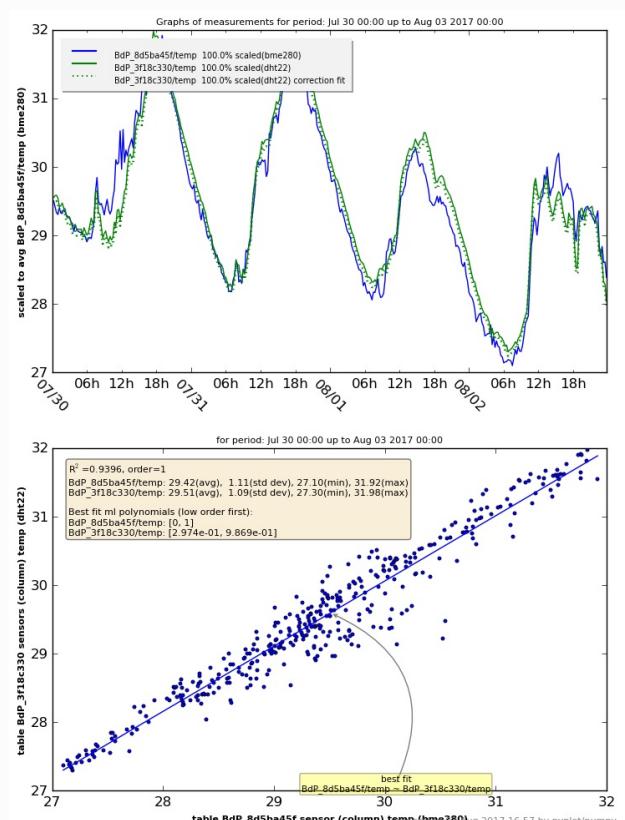
BdP_3f18c330/temp 0.2974 0.378 0.787 0.432 -0.446 1.041

Omnibus: 90.704 **Durbin-Watson:** 0.260

Prob(Omnibus): 0.000 **Jarque-Bera (JB):** 210.487

Skew: 1.181 **Prob(JB):** 1.96e-46

Kurtosis: 5.752 **Cond. No.** 800.



Correlation report for temp (raw) measurements: sensor type bme280@BdP_8d5ba45f

with bme280@BdP_3f18c330

Correlation details of project BdP sensor kit ID 8d5ba45f with project BdP sensor kit ID 3f18c330

Date of correlation report: do aug 3 16:57:17 CEST 2017

From date 2017-07-30 upto 2017-08-03 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): bme280

Graphs based on data INFLUX from influxdb on server localhost as user teus:

Database table BdP_8d5ba45f sensor (column) temp: 384 db records, deleted 0 NaN records.

Database table BdP_3f18c330 sensor (column) temp: 384 db records, deleted 0 NaN records.

Collected 384 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 03 2017 00:00, interval timing 15m:0s.

Data from table/sheet BdP_3f18c330, sensor (column) temp:

number 384, min=28.79, max=33.73

avg=31.12, std dev= 1.14

R-squared (R^2) with BdP_3f18c330/temp: 0.9330

Best fit linear single polynomial regression curve ($A_0 \cdot X^0 + A_1 \cdot X^1$):

BdP_8d5ba45f/temp (bme280)-> best fit coefficients:

3.288e-02, 9.444e-01

Statistical summary linear regression for BdP_8d5ba45f/temp with ['BdP_3f18c330/temp']:

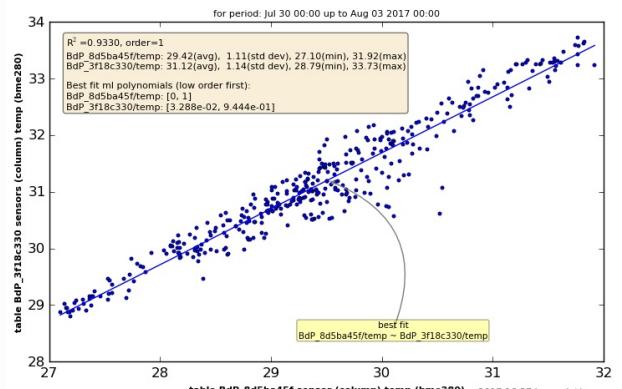
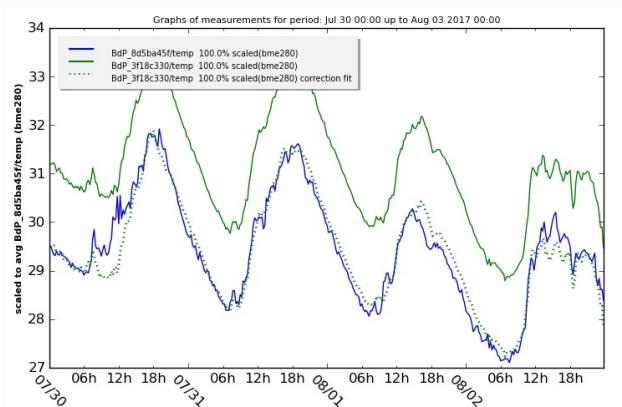
OLS Regression Results

| | | | |
|--------------------------|-------------------|----------------------------|-----------|
| Dep. Variable: | BdP_8d5ba45f/temp | R-squared: | 0.933 |
| Model: | OLS | Adj. R-squared: | 0.933 |
| Method: | Least Squares | F-statistic: | 5323. |
| Date: | Thu, 03 Aug 2017 | Prob (F-statistic): | 2.29e-226 |
| Time: | 16:57:18 | Log-Likelihood: | -66.288 |
| No. Observations: | 384 | AIC: | 136.6 |
| Df Residuals: | 382 | BIC: | 144.5 |
| Df Model: | 1 | | |

coef std err t P>|t| [95.0% Conf. Int.]

BdP_3f18c330/temp 0.0329 0.403 0.082 0.935 -0.760 0.826

| | | | |
|-----------------------|---------|--------------------------|----------|
| Omnibus: | 108.426 | Durbin-Watson: | 0.250 |
| Prob(Omnibus): | 0.000 | Jarque-Bera (JB): | 311.007 |
| Skew: | 1.314 | Prob(JB): | 2.92e-68 |
| Kurtosis: | 6.540 | Cond. No. | 854. |



Correlation report for temp (raw) measurements: sensor type dht22@BdP_3f18c330

with bme280@BdP_3f18c330

Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 3f18c330

Date of correlation report: do aug 3 16:57:19 CEST 2017

From date 2017-07-30 upto 2017-08-03 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): bme280, dht22

Graphs based on data INFLUX from influxdb on server localhost as user teus:

Database table BdP_3f18c330 sensor (column) temp: 384 db records, deleted 0 NaN records.

Database table BdP_3f18c330 sensor (column) temp: 384 db records, deleted 0 NaN records.

Collected 384 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 03 2017 00:00, interval timing 15m:0s.

Data from table/sheet BdP_3f18c330, sensor (column) temp:

number 384, min=28.79, max=33.73

avg=31.12, std dev= 1.14

R-squared (R^2) with BdP_3f18c330/temp: 0.9937

Best fit linear single polynomial regression curve ($A_0 \cdot X^0 + A_1 \cdot X^1$):

BdP_3f18c330/temp (bme280)-> best fit coefficients:

-2.781e-01, 9.573e-01

Statistical summary linear regression for BdP_3f18c330/temp with ['BdP_3f18c330/temp']:

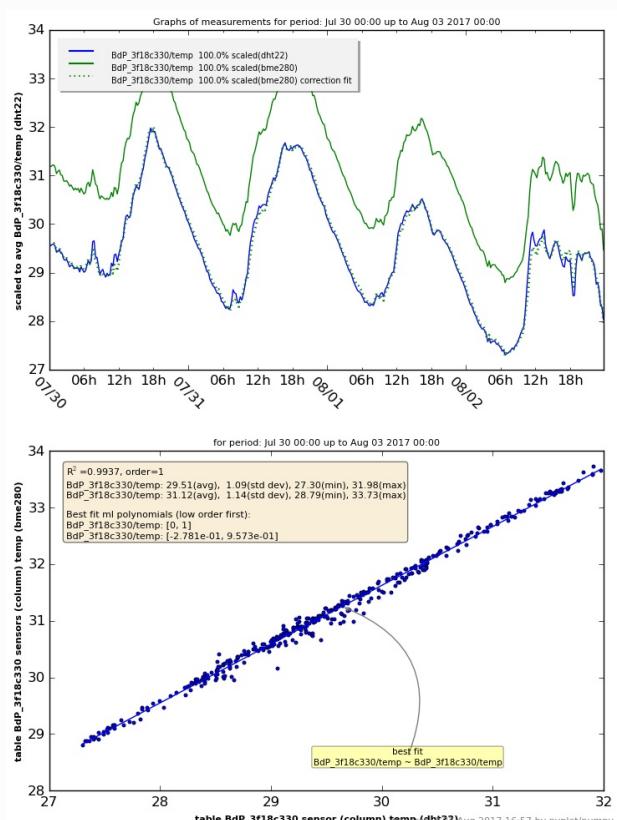
OLS Regression Results

| | | | |
|--------------------------|-------------------|----------------------------|-----------|
| Dep. Variable: | BdP_3f18c330/temp | R-squared: | 0.994 |
| Model: | OLS | Adj. R-squared: | 0.994 |
| Method: | Least Squares | F-statistic: | 6.001e+04 |
| Date: | Thu, 03 Aug 2017 | Prob (F-statistic): | 0.00 |
| Time: | 16:57:20 | Log-Likelihood: | 393.66 |
| No. Observations: | 384 | AIC: | -783.3 |
| Df Residuals: | 382 | BIC: | -775.4 |
| Df Model: | 1 | | |

coefficient standard error t P>|t| [95.0% Conf. Int.]

BdP_3f18c330/temp -0.2781 0.122 -2.286 0.023 -0.517 -0.039

Omnibus: 122.321 Durbin-Watson: 0.328
Prob(Omnibus): 0.000 Jarque-Bera (JB): 436.615
Skew: 1.397 Prob(JB): 1.55e-95
Kurtosis: 7.414 Cond. No. 854.



Correlation report for rh (raw) measurements: sensor type dht22@BdP_8d5ba45f

with bme280@BdP_8d5ba45f

Correlation details of project BdP sensor kit ID 8d5ba45f with project BdP sensor kit ID 8d5ba45f

Date of correlation report: do aug 3 16:57:22 CEST 2017

From date 2017-07-30 upto 2017-08-03 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): bme280, dht22

Graphs based on data INFLUX from influxdb on server localhost as user teus:

Database table BdP_8d5ba45f sensor (column) rh: 384 db records, deleted 0 NaN records.

Database table BdP_8d5ba45f sensor (column) rh: 384 db records, deleted 0 NaN records.

Collected 384 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 03 2017 00:00, interval timing 15m:0s.

Data from table/sheet BdP_8d5ba45f, sensor (column) rh:

number 384, min=35.96, max=49.74

avg=43.73, std dev= 3.30

R-squared (R^2) with BdP_8d5ba45f/rh: 0.9748

Best fit linear single polynomial regression curve ($A_0 \cdot X^0 + A_1 \cdot X^1$):

BdP_8d5ba45f/rh (bme280)-> best fit coefficients:

-6.283e+00, 1.300e+00

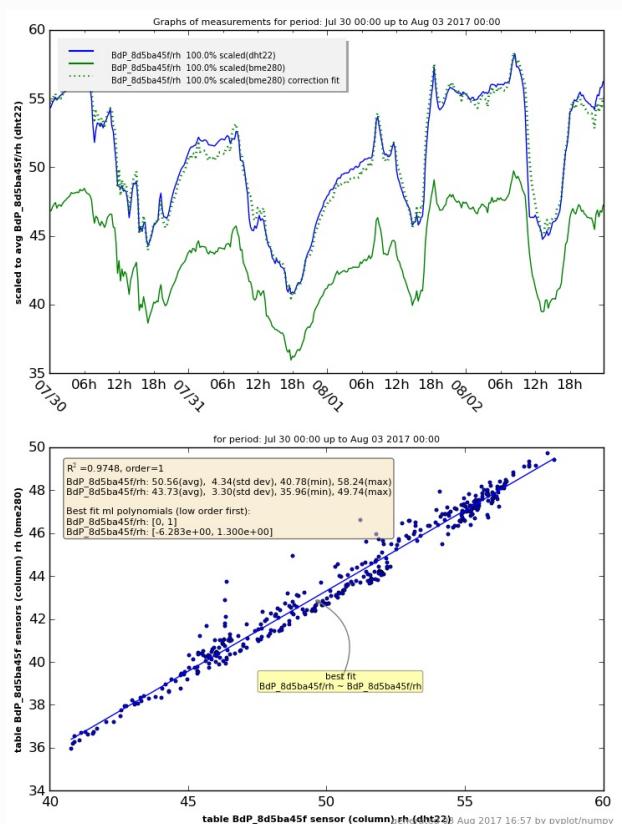
Statistical summary linear regression for BdP_8d5ba45f/rh with ['BdP_8d5ba45f/rh']:

OLS Regression Results

| | | | |
|--------------------------|------------------|----------------------------|-----------|
| Dep. Variable: | BdP_8d5ba45f/rh | R-squared: | 0.975 |
| Model: | OLS | Adj. R-squared: | 0.975 |
| Method: | Least Squares | F-statistic: | 1.476e+04 |
| Date: | Thu, 03 Aug 2017 | Prob (F-statistic): | 2.30e-307 |
| Time: | 16:57:22 | Log-Likelihood: | -402.25 |
| No. Observations: | 384 | AIC: | 808.5 |
| Df Residuals: | 382 | BIC: | 816.4 |
| Df Model: | 1 | | |

coef std err t P>|t| [95.0% Conf. Int.]
BdP_8d5ba45f/rh -6.2834 0.469 -13.392 0.000 -7.206 -5.361

Omnibus: 150.814 Durbin-Watson: 0.268
Prob(Omnibus): 0.000 Jarque-Bera (JB): 751.464
Skew: -1.619 Prob(JB): 6.63e-164
Kurtosis: 9.040 Cond. No. 583.



Correlation report for rh (raw) measurements: sensor type dht22@BdP_8d5ba45f

with dht22@BdP_3f18c330

Correlation details of project BdP sensor kit ID 8d5ba45f with project BdP sensor kit ID 3f18c330

Date of correlation report: do aug 3 16:57:24 CEST 2017

From date 2017-07-30 upto 2017-08-03 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): dht22

Graphs based on data INFLUX from influxdb on server localhost as user teus:

Database table BdP_8d5ba45f sensor (column) rh: 384 db records, deleted 0 NaN records.

Database table BdP_3f18c330 sensor (column) rh: 384 db records, deleted 0 NaN records.

Collected 384 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 03 2017 00:00, interval timing 15m:0s.

Data from table/sheet BdP_3f18c330, sensor (column) rh:

number 384, min=30.02, max=44.63

avg=38.34, std dev= 3.58

R-squared (R^2) with BdP_3f18c330/rh: 0.9432

Best fit linear single polynomial regression curve ($A_0 \cdot X^0 + A_1 \cdot X^1$):

BdP_8d5ba45f/rh (dht22)-> best fit coefficients:

5.339e+00, 1.180e+00

Statistical summary linear regression for BdP_8d5ba45f/rh with ['BdP_3f18c330/rh']:

OLS Regression Results

| | | | |
|-------------------|------------------|---------------------|-----------|
| Dep. Variable: | BdP_8d5ba45f/rh | R-squared: | 0.943 |
| Model: | OLS | Adj. R-squared: | 0.943 |
| Method: | Least Squares | F-statistic: | 6340. |
| Date: | Thu, 03 Aug 2017 | Prob (F-statistic): | 5.60e-240 |
| Time: | 16:57:24 | Log-Likelihood: | -558.21 |
| No. Observations: | 384 | AIC: | 1120. |
| Df Residuals: | 382 | BIC: | 1128. |
| Df Model: | 1 | | |

coef std err t P>|t| [95.0% Conf. Int.]

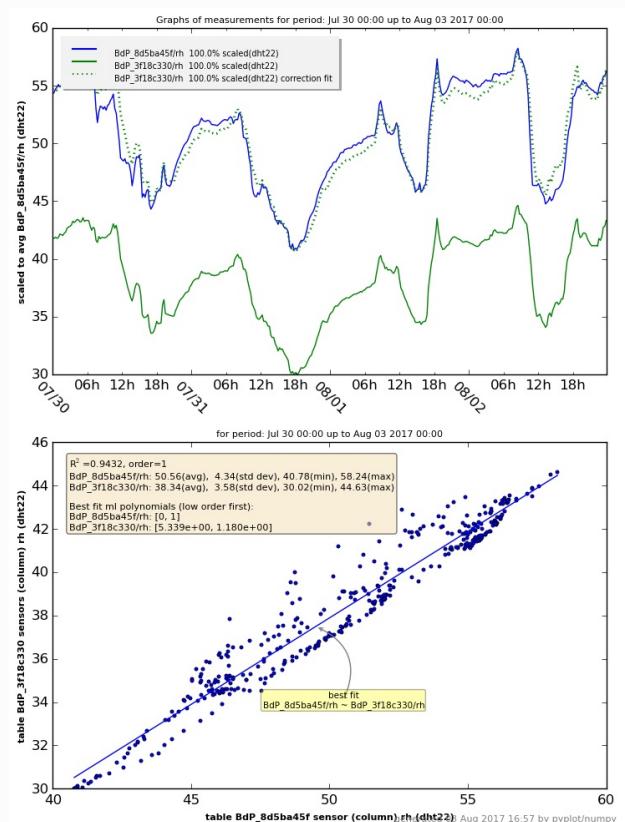
BdP_3f18c330/rh 5.3387 0.570 9.359 0.000 4.217 6.460

Omnibus: 74.418 Durbin-Watson: 0.084

Prob(Omnibus): 0.000 Jarque-Bera (JB): 116.145

Skew: -1.203 Prob(JB): 6.02e-26

Kurtosis: 4.213 Cond. No. 415.



Correlation report for rh (raw) measurements: sensor type dht22@BdP_8d5ba45f

with bme280@BdP_3f18c330

Correlation details of project BdP sensor kit ID 8d5ba45f with project BdP sensor kit ID 3f18c330

Date of correlation report: do aug 3 16:57:26 CEST 2017

From date 2017-07-30 upto 2017-08-03 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): bme280, dht22

Graphs based on data INFLUX from influxdb on server localhost as user teus:

Database table BdP_8d5ba45f sensor (column) rh: 384 db records, deleted 0 NaN records.

Database table BdP_3f18c330 sensor (column) rh: 384 db records, deleted 0 NaN records.

Collected 384 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 03 2017 00:00, interval timing 15m:0s.

Data from table/sheet BdP_3f18c330, sensor (column) rh:

number 384, min=29.35, max=41.71

avg=36.29, std dev= 2.97

R-squared (R^2) with BdP_3f18c330/rh: 0.9320

Best fit linear single polynomial regression curve ($A_0 * X^0 + A_1 * X^1$):

BdP_8d5ba45f/rh (bme280)-> best fit coefficients:

-6.747e-01, 1.412e+00

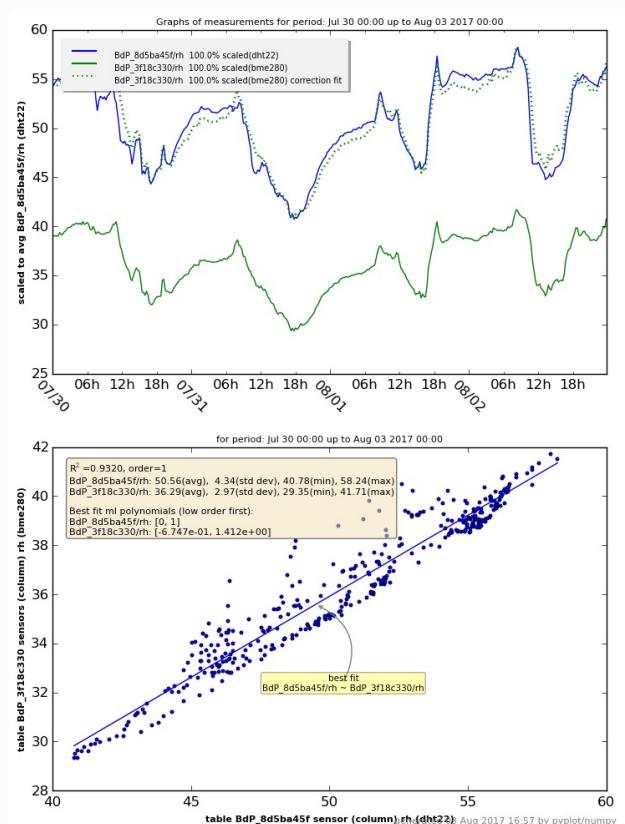
Statistical summary linear regression for BdP_8d5ba45f/rh with ['BdP_3f18c330/rh']:

OLS Regression Results

| | | | |
|--------------------------|------------------|----------------------------|-----------|
| Dep. Variable: | BdP_8d5ba45f/rh | R-squared: | 0.932 |
| Model: | OLS | Adj. R-squared: | 0.932 |
| Method: | Least Squares | F-statistic: | 5239. |
| Date: | Thu, 03 Aug 2017 | Prob (F-statistic): | 3.82e-225 |
| Time: | 16:57:26 | Log-Likelihood: | -592.54 |
| No. Observations: | 384 | AIC: | 1189. |
| Df Residuals: | 382 | BIC: | 1197. |
| Df Model: | 1 | | |

coef std err t P>|t| [95.0% Conf. Int.]
BdP_3f18c330/rh -0.6747 0.710 -0.950 0.343 -2.071 0.722

Omnibus: 94.673 **Durbin-Watson:** 0.106
Prob(Omnibus): 0.000 **Jarque-Bera (JB):** 180.335
Skew: -1.348 **Prob(JB):** 6.93e-40
Kurtosis: 5.001 **Cond. No.** 447.



Correlation report for rh (raw) measurements: sensor type bme280@BdP_8d5ba45f

with dht22@BdP_3f18c330

Correlation details of project BdP sensor kit ID 8d5ba45f with project BdP sensor kit ID 3f18c330

Date of correlation report: do aug 3 16:57:28 CEST 2017

From date 2017-07-30 upto 2017-08-03 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): bme280, dht22

Graphs based on data INFLUX from influxdb on server localhost as user teus:

Database table BdP_8d5ba45f sensor (column) rh: 384 db records, deleted 0 NaN records.

Database table BdP_3f18c330 sensor (column) rh: 384 db records, deleted 0 NaN records.

Collected 384 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 03 2017 00:00, interval timing 15m:0s.

Data from table/sheet BdP_3f18c330, sensor (column) rh:

number 384, min=30.02, max=44.63

avg=38.34, std dev= 3.58

R-squared (R^2) with BdP_3f18c330/rh: 0.9611

Best fit linear single polynomial regression curve ($A_0 \cdot X^0 + A_1 \cdot X^1$):

BdP_8d5ba45f/rh (dht22)-> best fit coefficients:

9.057e+00, 9.045e-01

Statistical summary linear regression for BdP_8d5ba45f/rh with ['BdP_3f18c330/rh']:

OLS Regression Results

| | | | |
|--------------------------|------------------|----------------------------|-----------|
| Dep. Variable: | BdP_8d5ba45f/rh | R-squared: | 0.961 |
| Model: | OLS | Adj. R-squared: | 0.961 |
| Method: | Least Squares | F-statistic: | 9448. |
| Date: | Thu, 03 Aug 2017 | Prob (F-statistic): | 1.65e-271 |
| Time: | 16:57:28 | Log-Likelihood: | -379.62 |
| No. Observations: | 384 | AIC: | 763.2 |
| Df Residuals: | 382 | BIC: | 771.1 |
| Df Model: | 1 | | |

coefficient standard error t-value P>|t| [95.0% Conf. Int.]

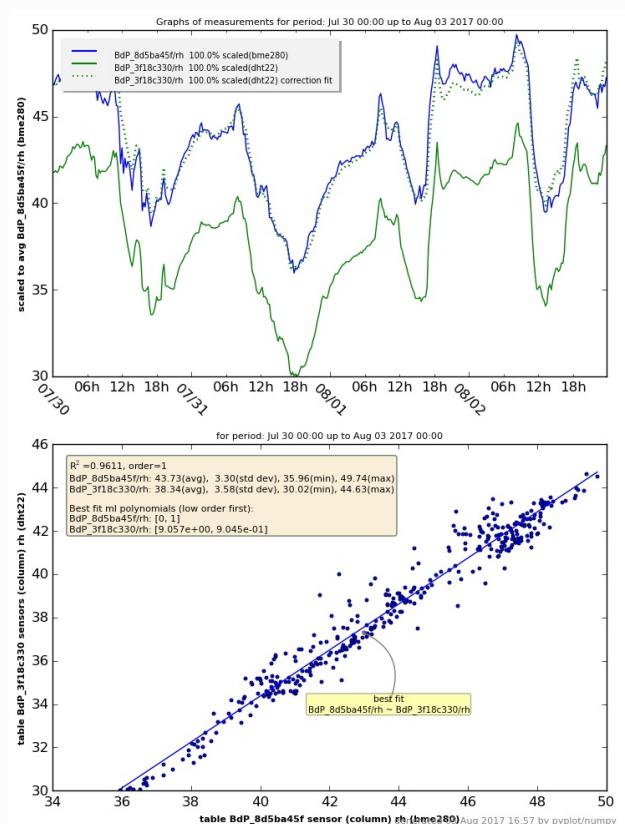
BdP_3f18c330/rh 9.0569 0.358 25.278 0.000 8.352 9.761

Omnibus: 54.770 Durbin-Watson: 0.234

Prob(Omnibus): 0.000 Jarque-Bera (JB): 100.753

Skew: -0.813 Prob(JB): 1.32e-22

Kurtosis: 4.911 Cond. No. 415.



Correlation report for rh (raw) measurements: sensor type bme280@BdP_8d5ba45f

with bme280@BdP_3f18c330

Correlation details of project BdP sensor kit ID 8d5ba45f with project BdP sensor kit ID 3f18c330

Date of correlation report: do aug 3 16:57:30 CEST 2017

From date 2017-07-30 upto 2017-08-03 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): bme280

Graphs based on data INFLUX from influxdb on server localhost as user teus:

Database table BdP_8d5ba45f sensor (column) rh: 384 db records, deleted 0 NaN records.

Database table BdP_3f18c330 sensor (column) rh: 384 db records, deleted 0 NaN records.

Collected 384 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 03 2017 00:00, interval timing 15m:0s.

Data from table/sheet BdP_3f18c330, sensor (column) rh:

number 384, min=29.35, max=41.71

avg=36.29, std dev= 2.97

R-squared (R^2) with BdP_3f18c330/rh: 0.9611

Best fit linear single polynomial regression curve ($A_0 \cdot X^0 + A_1 \cdot X^1$):

BdP_8d5ba45f/rh (bme280)-> best fit coefficients:

4.214e+00, 1.089e+00

Statistical summary linear regression for BdP_8d5ba45f/rh with ['BdP_3f18c330/rh']:

OLS Regression Results

| | | | |
|--------------------------|------------------|----------------------------|-----------|
| Dep. Variable: | BdP_8d5ba45f/rh | R-squared: | 0.961 |
| Model: | OLS | Adj. R-squared: | 0.961 |
| Method: | Least Squares | F-statistic: | 9433. |
| Date: | Thu, 03 Aug 2017 | Prob (F-statistic): | 2.19e-271 |
| Time: | 16:57:31 | Log-Likelihood: | -379.91 |
| No. Observations: | 384 | AIC: | 763.8 |
| Df Residuals: | 382 | BIC: | 771.7 |
| Df Model: | 1 | | |

coef std err t P>|t| [95.0% Conf. Int.]

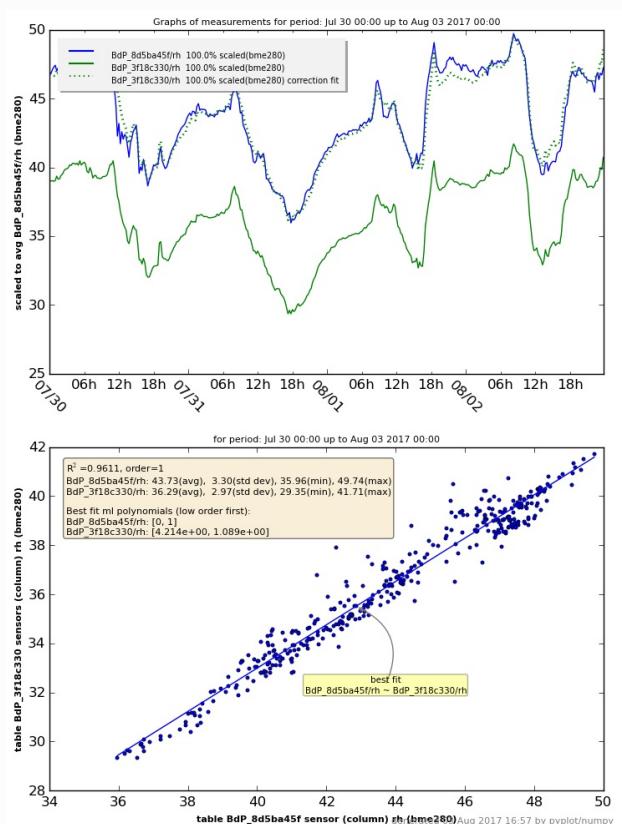
BdP_3f18c330/rh 4.2136 0.408 10.321 0.000 3.411 5.016

Omnibus: 68.339 Durbin-Watson: 0.245

Prob(Omnibus): 0.000 Jarque-Bera (JB): 154.598

Skew: -0.908 Prob(JB): 2.69e-34

Kurtosis: 5.523 Cond. No. 447.



Correlation report for rh (raw) measurements: sensor type dht22@BdP_3f18c330

with bme280@BdP_3f18c330

Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 3f18c330

Date of correlation report: do aug 3 16:57:32 CEST 2017

From date 2017-07-30 upto 2017-08-03 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): bme280, dht22

Graphs based on data INFLUX from influxdb on server localhost as user teus:

Database table BdP_3f18c330 sensor (column) rh: 384 db records, deleted 0 NaN records.

Database table BdP_3f18c330 sensor (column) rh: 384 db records, deleted 0 NaN records.

Collected 384 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 03 2017 00:00, interval timing 15m:0s.

Data from table/sheet BdP_3f18c330, sensor (column) rh:

number 384, min=29.35, max=41.71

avg=36.29, std dev= 2.97

R-squared (R²) with BdP_3f18c330/rh: 0.9945

Best fit linear single polynomial regression curve ($A_0 \cdot X^0 + A_1 \cdot X^1$):

BdP_3f18c330/rh (bme280)-> best fit coefficients:

-5.235e+00, 1.201e+00

Statistical summary linear regression for BdP_3f18c330/rh with ['BdP_3f18c330/rh']:

OLS Regression Results

| | | | |
|-------------------|------------------|---------------------|-----------|
| Dep. Variable: | BdP_3f18c330/rh | R-squared: | 0.994 |
| Model: | OLS | Adj. R-squared: | 0.994 |
| Method: | Least Squares | F-statistic: | 6.885e+04 |
| Date: | Thu, 03 Aug 2017 | Prob (F-statistic): | 0.00 |
| Time: | 16:57:33 | Log-Likelihood: | -35.758 |
| No. Observations: | 384 | AIC: | 75.52 |
| Df Residuals: | 382 | BIC: | 83.42 |
| Df Model: | 1 | | |

coefficient std error t P>|t| [95.0% Conf. Int.]

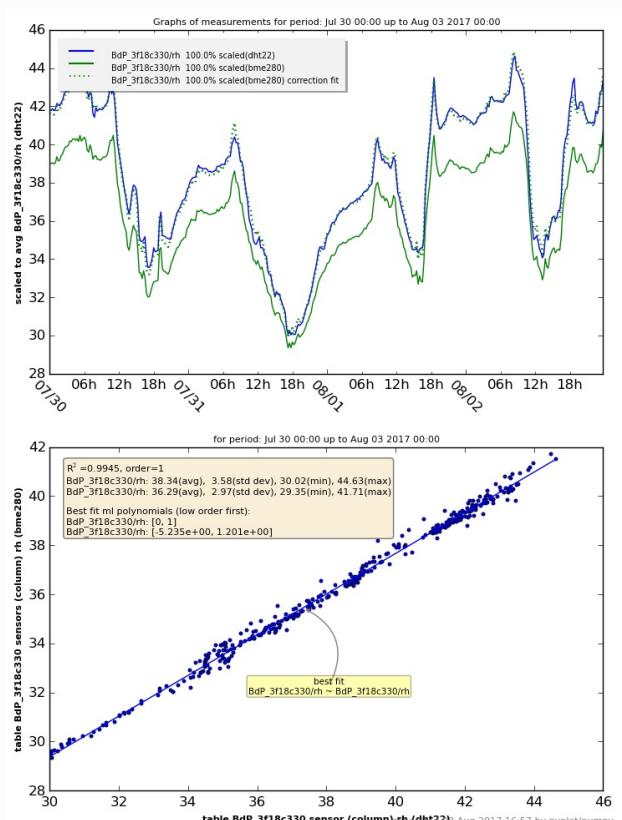
BdP_3f18c330/rh -5.2353 0.167 -31.423 0.000 -5.563 -4.908

Omnibus: 28.930 Durbin-Watson: 0.462

Prob(Omnibus): 0.000 Jarque-Bera (JB): 47.685

Skew: -0.496 Prob(JB): 4.42e-11

Kurtosis: 4.413 Cond. No. 447.



Correlation report for pha (raw) measurements: sensor type bme280@BdP_8d5ba45f

with bme280@BdP_3f18c330

Correlation details of project BdP sensor kit ID 8d5ba45f with project BdP sensor kit ID 3f18c330

Date of correlation report: do aug 3 16:57:34 CEST 2017

From date 2017-07-30 upto 2017-08-03 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): bme280

Graphs based on data INFLUX from influxdb on server localhost as user teus:

Database table BdP_8d5ba45f sensor (column) pha: 384 db records, deleted 0 NaN records.

Database table BdP_3f18c330 sensor (column) pha: 384 db records, deleted 0 NaN records.

Collected 384 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 03 2017 00:00, interval timing 15m:0s.

Data from table/sheet BdP_3f18c330, sensor (column) pha:

number 384, min=100219.41, max=101508.96

avg=101009.22, std dev=352.14

R-squared (R²) with BdP_3f18c330/pha: 0.9999

Best fit linear single polynomial regression curve (A₀*X⁰ + A₁*X¹):

BdP_8d5ba45f/pha (bme280)-> best fit coefficients:

-2.315e+01, 1.001e+00

Statistical summary linear regression for BdP_8d5ba45f/pha with ['BdP_3f18c330/pha']:

OLS Regression Results

| | | | |
|--------------------------|------------------|----------------------------|-----------|
| Dep. Variable: | BdP_8d5ba45f/pha | R-squared: | 1.000 |
| Model: | OLS | Adj. R-squared: | 1.000 |
| Method: | Least Squares | F-statistic: | 5.173e+06 |
| Date: | Thu, 03 Aug 2017 | Prob (F-statistic): | 0.00 |
| Time: | 16:57:35 | Log-Likelihood: | -970.29 |
| No. Observations: | 384 | AIC: | 1945. |
| Df Residuals: | 382 | BIC: | 1952. |
| Df Model: | 1 | | |

coef std err t P>|t| [95.0% Conf. Int.]

BdP_3f18c330/pha -23.1500 44.438 -0.521 0.603 -110.525 64.224

Omnibus: 4.907 **Durbin-Watson:** 0.376

Prob(Omnibus): 0.086 **Jarque-Bera (JB):** 4.476

Skew: -0.202 **Prob(JB):** 0.107

Kurtosis: 2.658 **Cond. No.** 2.90e+07

