

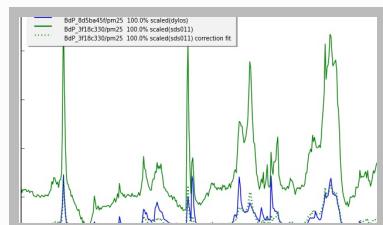
Summary of correlations of sensor kits and sensor modules

Sensorkits: BdP_8d5ba45f BdP_3f18c330 BdP_33040d54
Date: do aug 3 22:14:12 CEST 2017

R-square and statistical summary

Correlation key values for measurement PM2.5

kit(BdP_8d5ba45f), type(**DYLOS**) with kit(BdP_3f18c330), type(**SDS011**):

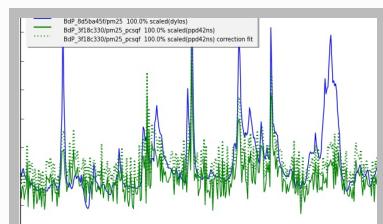


number 384, min=316.14, max=4869.75

avg=1418.02, std dev=733.93

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

kit(BdP_8d5ba45f), type(**DYLOS**) with kit(BdP_3f18c330), type(**PPD42NS**):

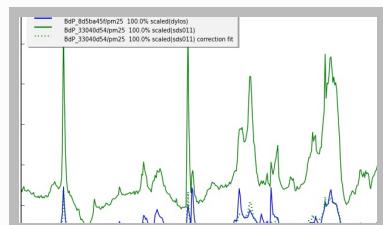


number 384, min=139.90, max=1198.20

avg=386.20, std dev=125.73

R-squared (R^2) with BdP_3f18c330_pm25_pcsqf: 0.3776

kit(BdP_8d5ba45f), type(**DYLOS**) with kit(BdP_33040d54), type(**SDS011**):

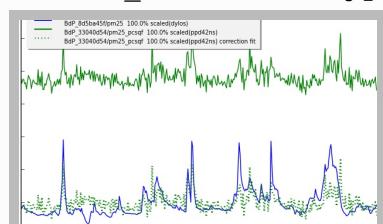


number 384, min=405.57, max=5496.71

avg=1675.98, std dev=799.56

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

kit(BdP_8d5ba45f), type(**DYLOS**) with kit(BdP_33040d54), type(**PPD42NS**):

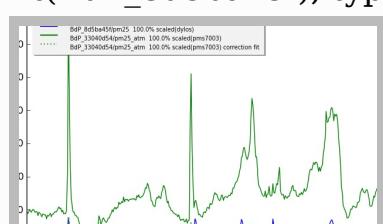


number 384, min=2136.36, max=3071.67

avg=2401.09, std dev=137.70

R-squared (R^2) with BdP_33040d54_pm25_pcsqf: 0.3521

kit(BdP_8d5ba45f), type(**DYLOS**) with kit(BdP_33040d54), type(**PMS7003**):

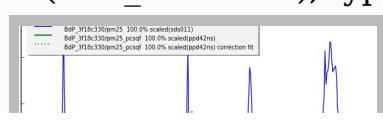


number 384, min=100.60, max=13624.13

avg=2941.04, std dev=1721.03

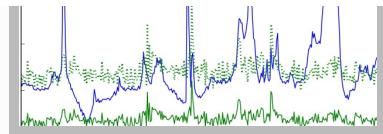
R-squared (R^2) with BdP_33040d54_pm25_atm: 0.5870

kit(BdP_3f18c330), type(**SDS011**) with kit(BdP_3f18c330), type(**PPD42NS**):



number 384, min=139.90, max=1198.20

avg=386.20, std dev=125.73



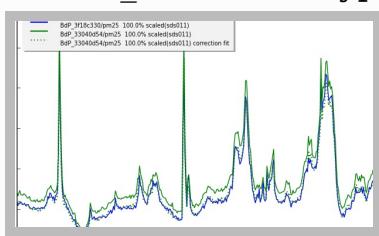
R-squared (R^2) with BdP_3f18c330/pm25_pcsqf: 0.0874

kit(BdP_3f18c330), type(**SDS011**) with kit(BdP_33040d54), type(**SDS011**):

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

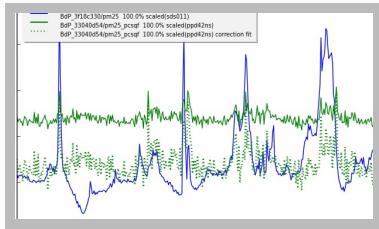


kit(BdP_3f18c330), type(**SDS011**) with kit(BdP_33040d54), type(**PPD42NS**):

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

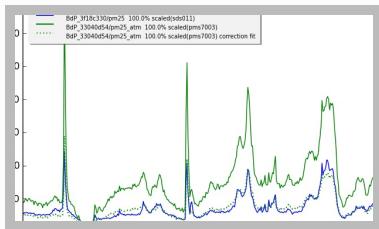


kit(BdP_3f18c330), type(**SDS011**) with kit(BdP_33040d54), type(**PMS7003**):

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

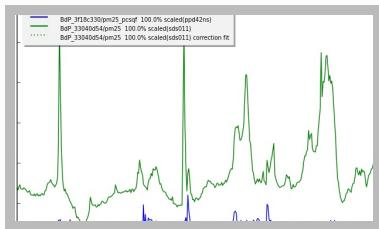


kit(BdP_3f18c330), type(**PPD42NS**) with kit(BdP_33040d54), type(**SDS011**):

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

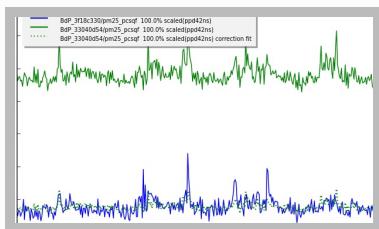


kit(BdP_3f18c330), type(**PPD42NS**) with kit(BdP_33040d54), type(**PPD42NS**):

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

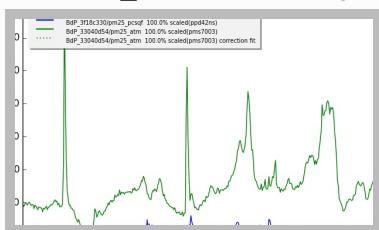


kit(BdP_3f18c330), type(**PPD42NS**) with kit(BdP_33040d54), type(**PMS7003**):

number 384, min=100.60, max=13624.13

avg=2941.04, std dev=1721.03

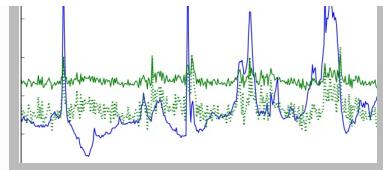
R-squared (R^2) with BdP_33040d54/pm25_atm: 0.0627



kit(BdP_33040d54), type(**SDS011**) with kit(BdP_33040d54), type(**PPD42NS**):

number 384, min=2136.36, max=3071.67

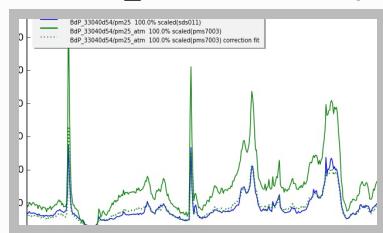




avg=2401.09, std dev=137.70

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

kit(BdP_33040d54), type(**SDS011**) with kit(BdP_33040d54), type(**PMS7003**):

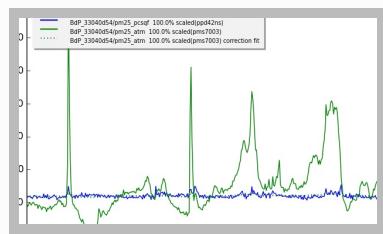


number 384, min=100.60, max=13624.13

avg=2941.04, std dev=1721.03

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

kit(BdP_33040d54), type(**PPD42NS**) with kit(BdP_33040d54), type(**PMS7003**):



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

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 22:14:10 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

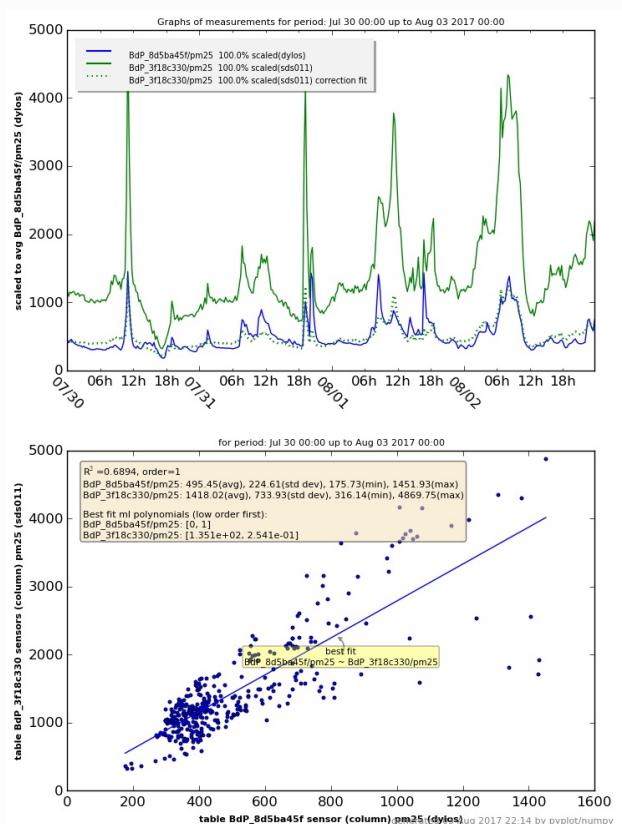
Statistical summary linear regression for BdP_8d5ba45f/pm25
with ['BdP_3f18c330/pm25']:

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:	22:14:10	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 22:14:12 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

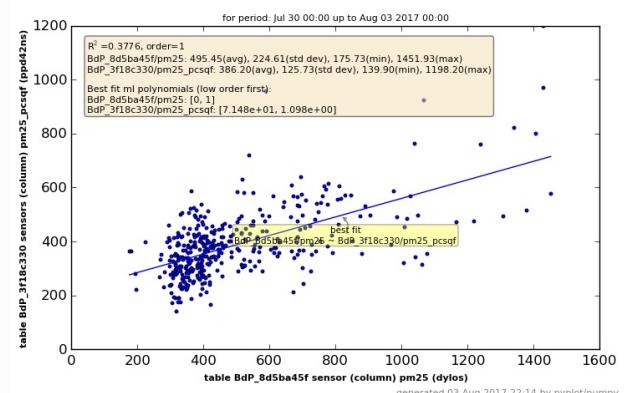
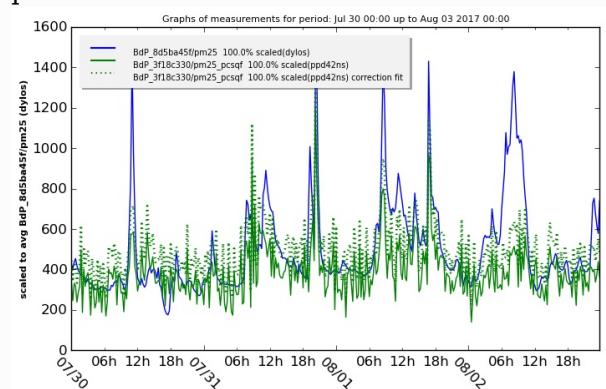
Statistical summary linear regression for BdP_8d5ba45f/pm25 with ['BdP_3f18c330/pm25_pcsqf']:

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:	22:14:12	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 22:14:14 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

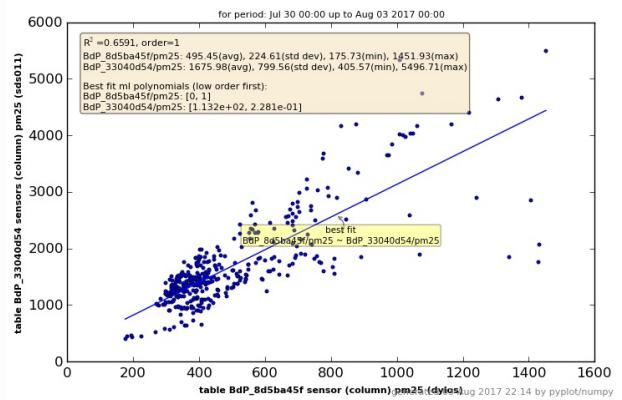
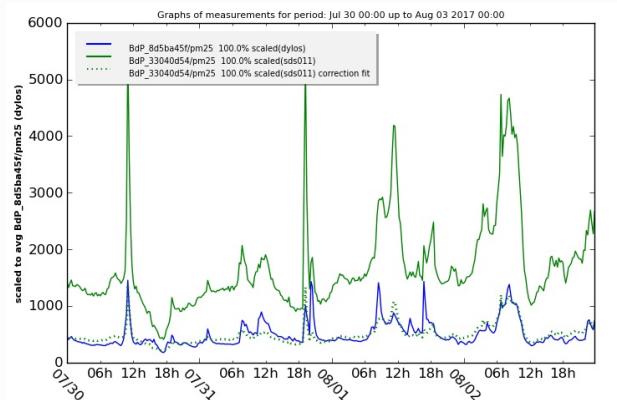
Statistical summary linear regression for BdP_8d5ba45f/pm25
with ['BdP_33040d54/pm25']:

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:	22:14:14	Log-Likelihood:	-2417.4
No. Observations:	384	AIC:	4839.
Df Residuals:	382	BIC:	4847.
Df Model:	1		

coef std err 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 22:14:16 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): 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

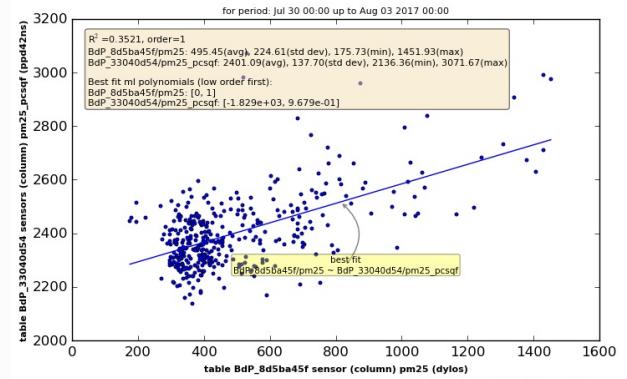
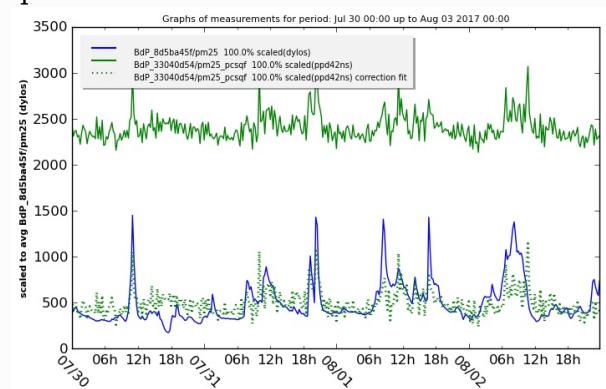
Statistical summary linear regression for BdP_8d5ba45f/pm25
with ['BdP_33040d54/pm25_pcsqf']:

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:	22:14:17	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 22:14:18 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): 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

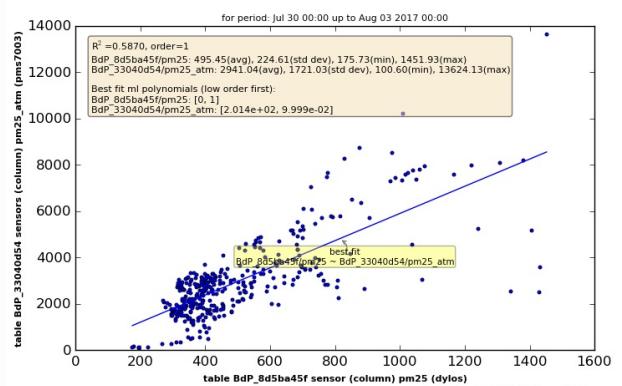
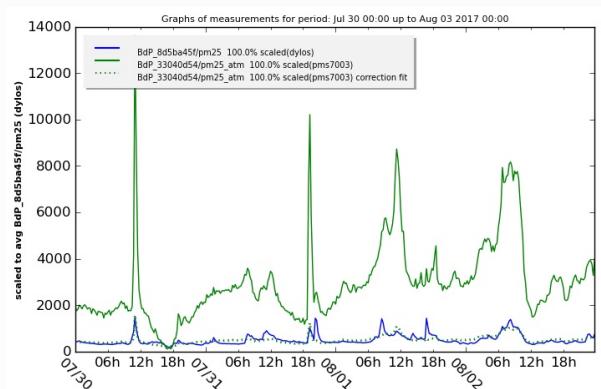
Statistical summary linear regression for BdP_8d5ba45f/pm25
with ['BdP_33040d54/pm25_atm']:

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:	22:14:19	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 22:14:20 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) 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']:

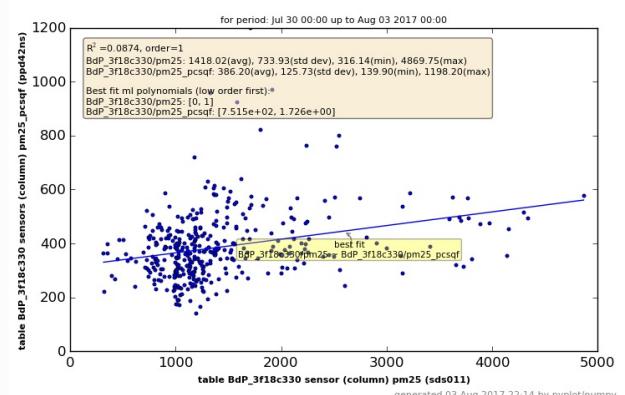
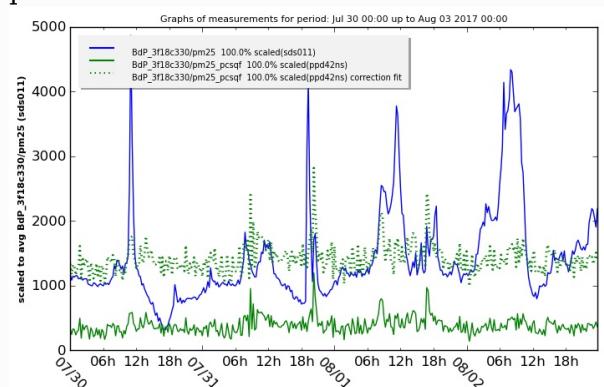
OLS Regression Results

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:	22:14:21	Log-Likelihood:	-3061.1
No. Observations:	384	AIC:	6126.
Df Residuals:	382	BIC:	6134.
Df Model:	1		

coefficient std error 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 22:14:22 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

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.

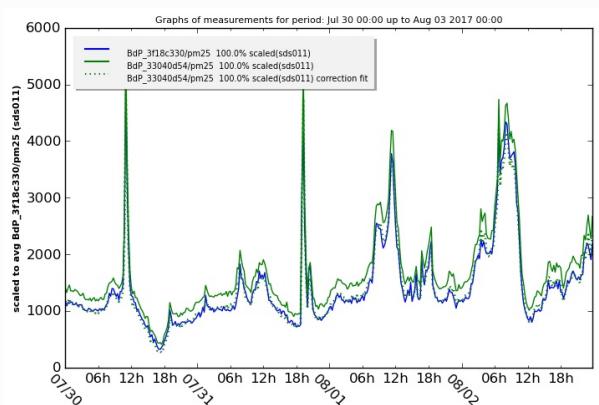
Data from table/sheet BdP_33040d54, sensor (column) pm25:

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

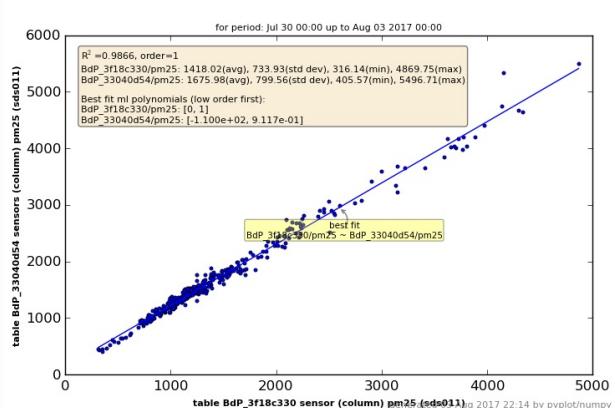
Statistical summary linear regression for BdP_3f18c330/pm25 with ['BdP_33040d54/pm25']:

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:	22:14:23	Log-Likelihood:	-2250.7
No. Observations:	384	AIC:	4505.
Df Residuals:	382	BIC:	4513.
Df Model:	1		

coefficient standard error t-value 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 22:14:25 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:	22:14:25	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.]

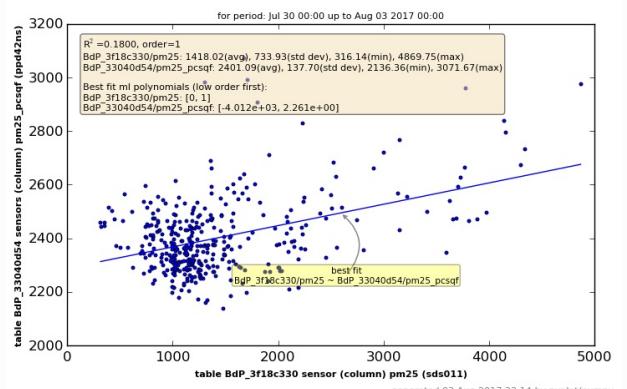
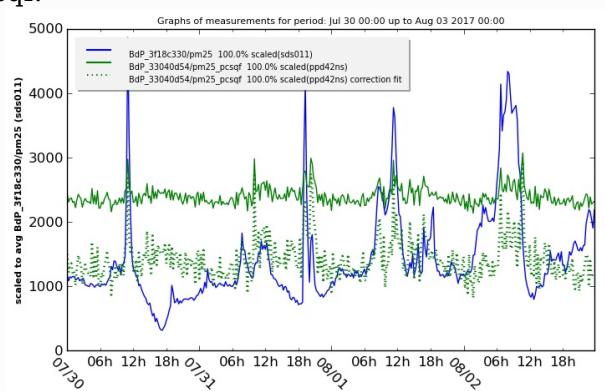
BdP_33040d54/pm25_pcsqf -4011.9092 593.901 -6.755 0.000 -5179.633 -2844.186

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 22:14:27 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

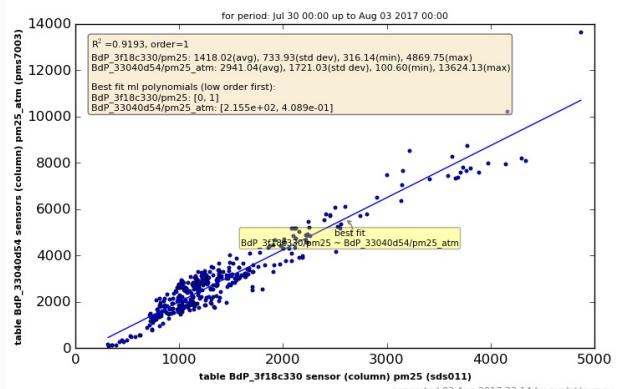
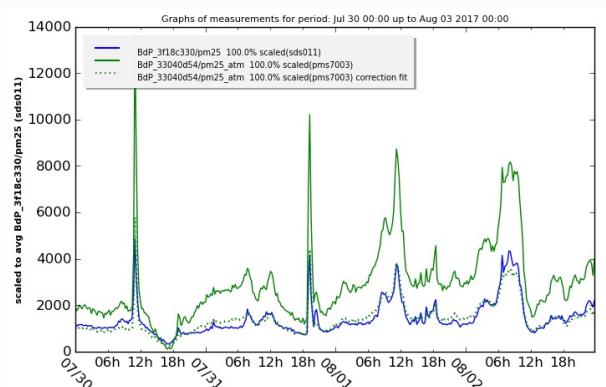
Statistical summary linear regression for BdP_3f18c330/pm25 with ['BdP_33040d54/pm25_atm']:

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:	22:14:27	Log-Likelihood:	-2595.4
No. Observations:	384	AIC:	5195.
Df Residuals:	382	BIC:	5203.
Df Model:	1		

coef std err t P>|t| [95.0% Conf. Int.]
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 22:14:29 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']:

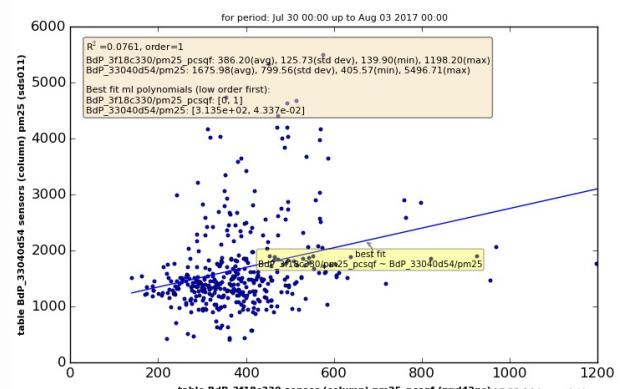
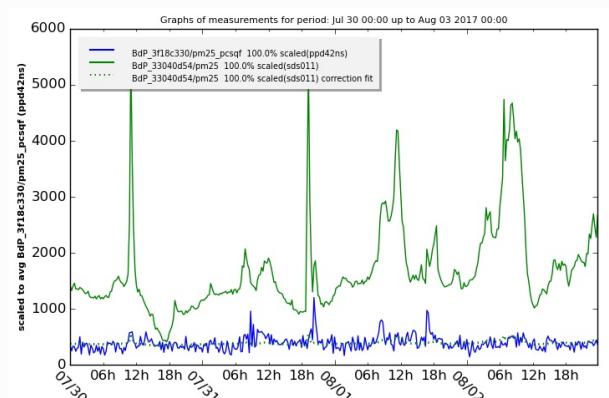
OLS Regression Results

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:	22:14:29	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 22:14:31 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 ($A_0 * X^0 + A_1 * X^1$):

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

-5.936e+02, 4.081e-01

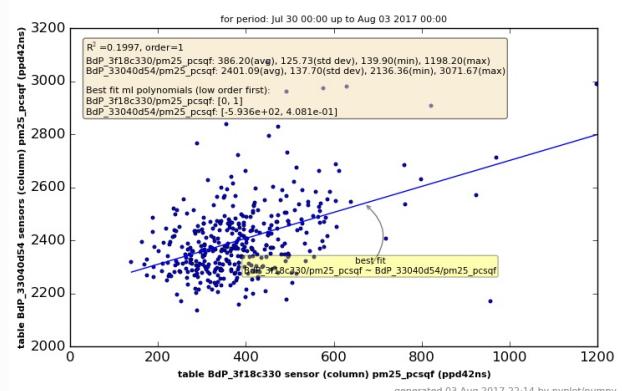
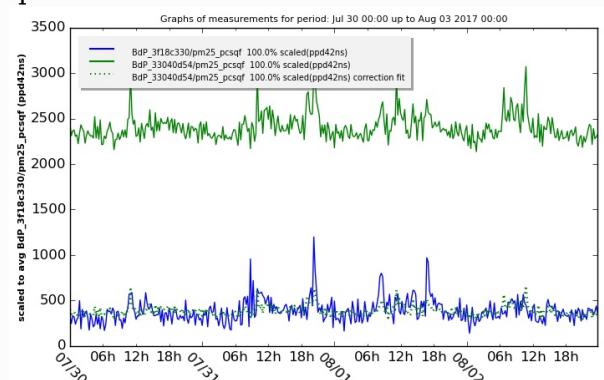
Statistical summary linear regression for
BdP_3f18c330/pm25_pcsqf with ['BdP_33040d54/pm25_pcsqf']:

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:	22:14:31	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 22:14:33 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

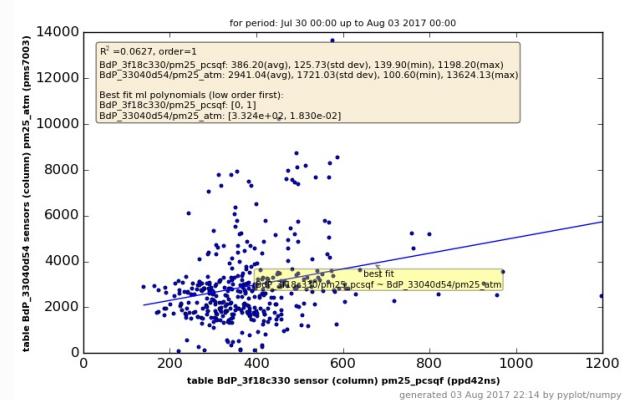
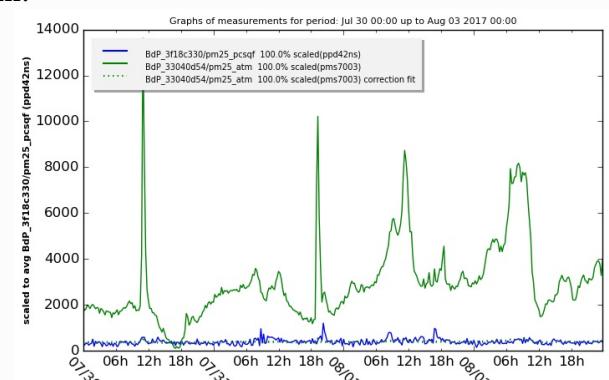
Statistical summary linear regression for
BdP_3f18c330/pm25_pcsqf with ['BdP_33040d54/pm25_atm']:

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:	22:14:34	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 22:14:35 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): 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:	22:14:36	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.]

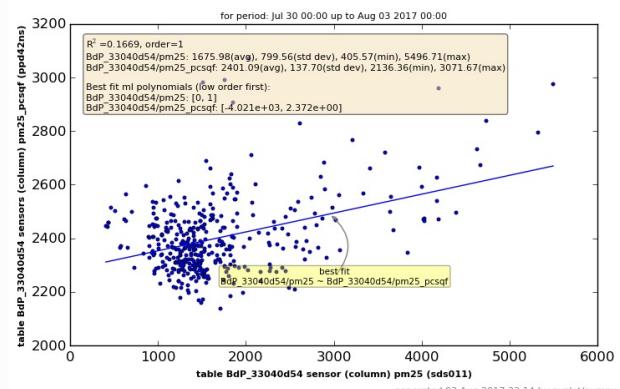
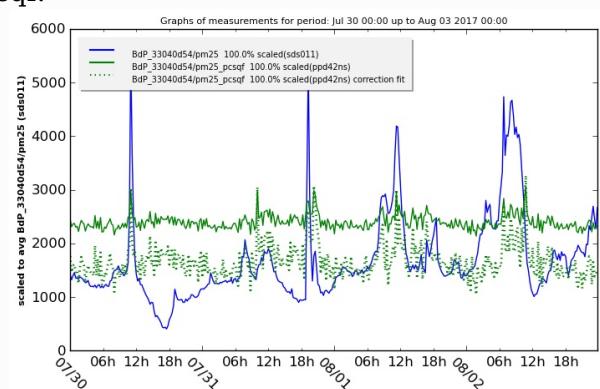
BdP_33040d54/pm25_pcsqf -4020.5363 652.156 -6.165 0.000 -5302.801 -2738.272

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 22:14:37 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, 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

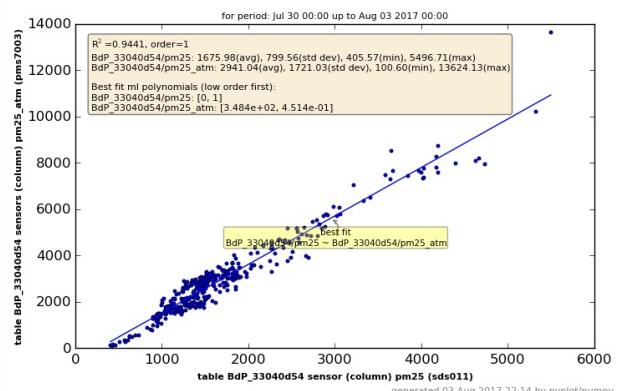
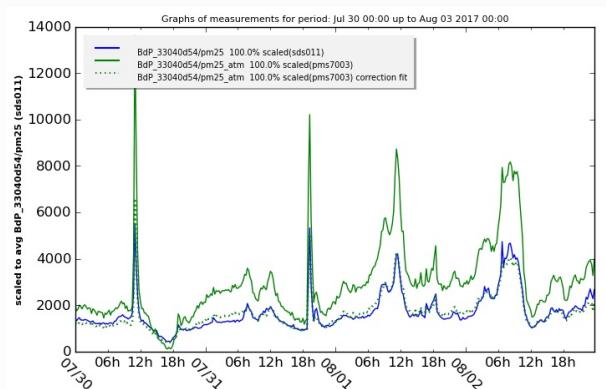
Statistical summary linear regression for BdP_33040d54/pm25 with ['BdP_33040d54/pm25_atm']:

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:	22:14:38	Log-Likelihood:	-2557.9
No. Observations:	384	AIC:	5120.
Df Residuals:	382	BIC:	5128.
Df Model:	1		

coef std err t P>|t| [95.0% Conf. Int.]
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 22:14:39 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, 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:	22:14:40	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

