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Summary of correlations of sensor kits and sensor modules

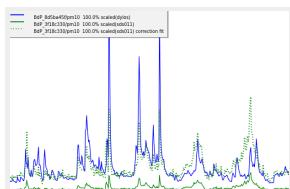
Sensorkits: BdP_8d5ba45f BdP_3f18c330 BdP_33040d54

Report generated on: Sat Aug 5 21:32:55 CEST 2017

R-square and statistical summary

Measurement PM10 correlation key values

Correlation 1 - PM10 - kit BdP_8d5ba45f sensor type **DYLOS** with kit BdP_3f18c330 sensor type **SDS011**:



nr samples 480, min= 4.00, max=43.00

avg=11.11, std dev= 5.60

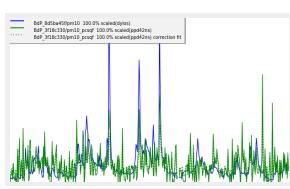
R-squared:

0.4394

Best fit polynomial coefficients:

[9.251e-01, 4.687e+00]

Correlation 2 - PM10 - kit BdP_8d5ba45f sensor type **DYLOS** with kit BdP_3f18c330 sensor type **PPD42NS**:



nr samples 463, min= 1.00, max=255.25

avg=53.51, std dev=32.78

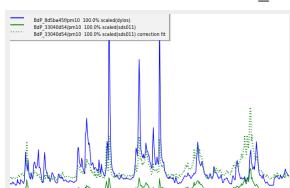
R-squared:

0.2164

Best fit polynomial coefficients:

[2.332e+01, 5.684e-01]

Correlation 3 - PM10 - kit BdP_8d5ba45f sensor type **DYLOS** with kit BdP_33040d54 sensor type **SDS011**:



nr samples 480, min= 4.29, max=57.14

avg=12.84, std dev= 7.22

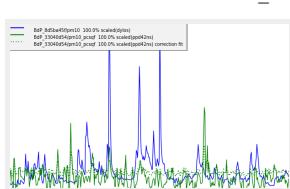
R-squared:

0.2883

Best fit polynomial coefficients:

[1.522e+01, 2.942e+00]

Correlation 4 - PM10 - kit BdP_8d5ba45f sensor type **DYLOS** with kit BdP_33040d54 sensor type **PPD42NS**:



nr samples 474, min= 1.00, max=195.88

avg=38.47, std dev=21.76

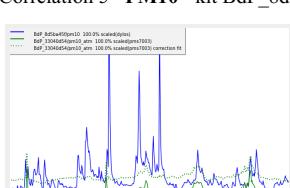
R-squared:

0.0407

Best fit polynomial coefficients:

[3.912e+01, 3.684e-01]

Correlation 5 - PM10 - kit BdP_8d5ba45f sensor type **DYLOS** with kit BdP_33040d54 sensor type **PMS7003**:



nr samples 480, min= 0.67, max=71.40

avg=16.24, std dev=10.05

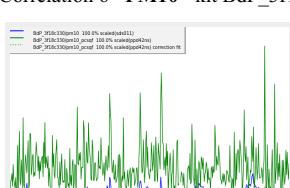
R-squared:

0.0545

Best fit polynomial coefficients:

[3.806e+01, 9.185e-01]

Correlation 6 - PM10 - kit BdP_3f18c330 sensor type **SDS011** with kit BdP_3f18c330 sensor type **PPD42NS**:



nr samples 463, min= 1.00, max=255.25

avg=53.51, std dev=32.78

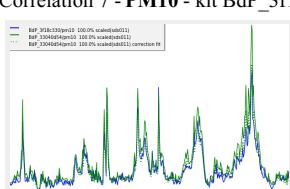
R-squared:

0.0909

Best fit polynomial coefficients:

[8.450e+00, 5.197e-02]

Correlation 7 - PM10 - kit BdP_3f18c330 sensor type **SDS011** with kit BdP_33040d54 sensor type **SDS011**:



nr samples 480, min= 4.29, max=57.14

avg=12.84, std dev= 7.22

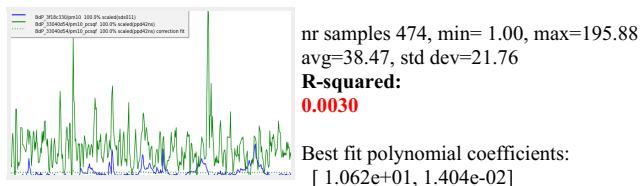
R-squared:

0.9345

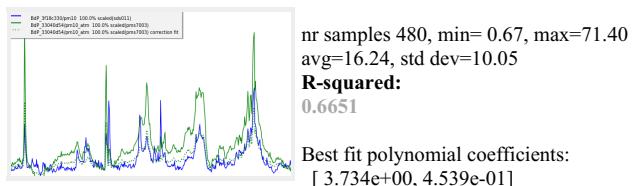
Best fit polynomial coefficients:

[1.491e+00, 7.491e-01]

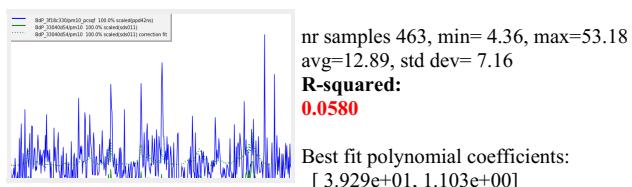
Correlation 8 - PM10 - kit BdP_3f18c330 sensor type SDS011 with kit BdP_33040d54 sensor type PPD42NS:



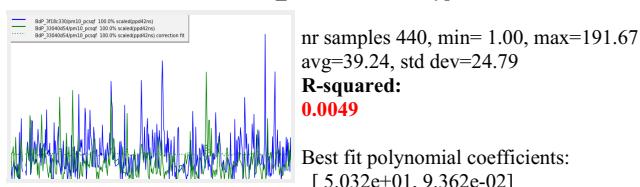
Correlation 9 - PM10 - kit BdP_3f18c330 sensor type SDS011 with kit BdP_33040d54 sensor type PMS7003:



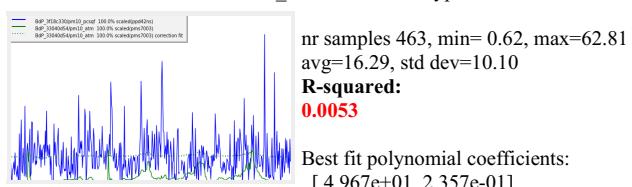
Correlation 10 - PM10 - kit BdP_3f18c330 sensor type PPD42NS with kit BdP_33040d54 sensor type SDS011:



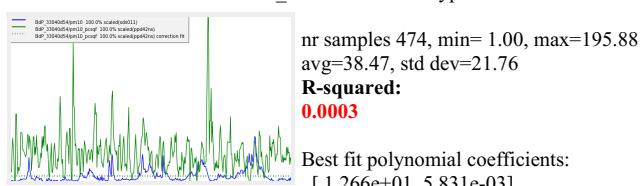
Correlation 11 - PM10 - kit BdP_3f18c330 sensor type PPD42NS with kit BdP_33040d54 sensor type PPD42NS:



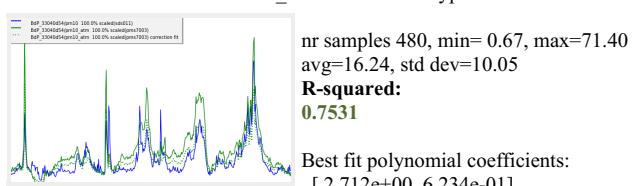
Correlation 12 - PM10 - kit BdP_3f18c330 sensor type PPD42NS with kit BdP_33040d54 sensor type PMS7003:



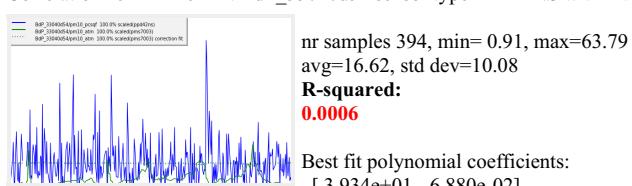
Correlation 13 - PM10 - kit BdP_33040d54 sensor type SDS011 with kit BdP_33040d54 sensor type PPD42NS:



Correlation 14 - PM10 - kit BdP_33040d54 sensor type SDS011 with kit BdP_33040d54 sensor type PMS7003:

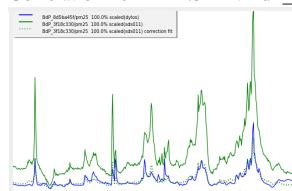


Correlation 15 - PM10 - kit BdP_33040d54 sensor type PPD42NS with kit BdP_33040d54 sensor type PMS7003:



Measurement PM2.5 correlation key values

Correlation 16 - PM2.5 - kit BdP_8d5ba45f sensor type **DYLOS** with kit BdP_3f18c330 sensor type **SDS011**:

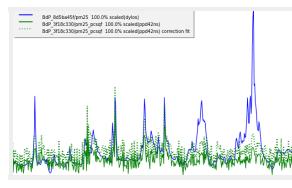


nr samples 480, min=316.14, max=7901.43
avg=1546.29, std dev=983.13

R-squared:
0.8092

Best fit polynomial coefficients:
[1.059e+02, 2.811e-01]

Correlation 17 - PM2.5 - kit BdP_8d5ba45f sensor type **DYLOS** with kit BdP_3f18c330 sensor type **PPD42NS**:

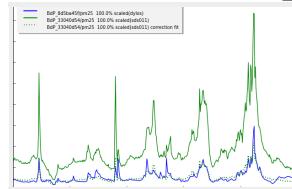


nr samples 480, min=139.90, max=1198.20
avg=385.40, std dev=118.73

R-squared:
0.2595

Best fit polynomial coefficients:
[3.253e+01, 1.318e+00]

Correlation 18 - PM2.5 - kit BdP_8d5ba45f sensor type **DYLOS** with kit BdP_33040d54 sensor type **SDS011**:

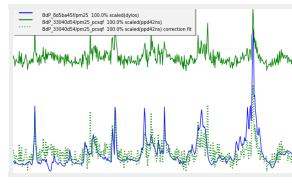


nr samples 480, min=405.57, max=8334.43
avg=1818.69, std dev=1092.43

R-squared:
0.7772

Best fit polynomial coefficients:
[8.964e+01, 2.479e-01]

Correlation 19 - PM2.5 - kit BdP_8d5ba45f sensor type **DYLOS** with kit BdP_33040d54 sensor type **PPD42NS**:

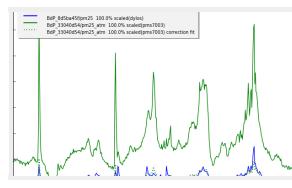


nr samples 480, min=2136.36, max=3351.71
avg=2402.76, std dev=146.93

R-squared:
0.4418

Best fit polynomial coefficients:
[-2.799e+03, 1.390e+00]

Correlation 20 - PM2.5 - kit BdP_8d5ba45f sensor type **DYLOS** with kit BdP_33040d54 sensor type **PMS7003**:

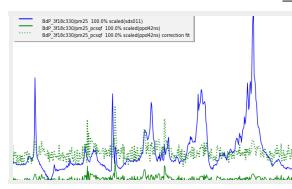


nr samples 480, min=100.60, max=13624.13
avg=3051.89, std dev=1917.84

R-squared:
0.6605

Best fit polynomial coefficients:
[1.432e+02, 1.302e-01]

Correlation 21 - PM2.5 - kit BdP_3f18c330 sensor type **SDS011** with kit BdP_3f18c330 sensor type **PPD42NS**:

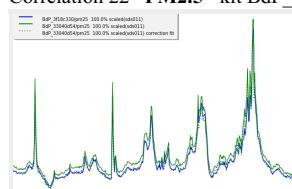


nr samples 480, min=139.90, max=1198.20
avg=385.40, std dev=118.73

R-squared:
0.0952

Best fit polynomial coefficients:
[5.614e+02, 2.555e+00]

Correlation 22 - PM2.5 - kit BdP_3f18c330 sensor type **SDS011** with kit BdP_33040d54 sensor type **SDS011**:

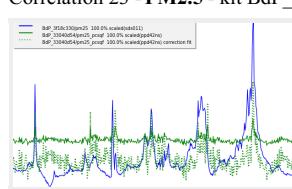


nr samples 480, min=405.57, max=8334.43
avg=1818.69, std dev=1092.43

R-squared:
0.9866

Best fit polynomial coefficients:
[-7.946e+01, 8.939e-01]

Correlation 23 - PM2.5 - kit BdP_3f18c330 sensor type **SDS011** with kit BdP_33040d54 sensor type **PPD42NS**:

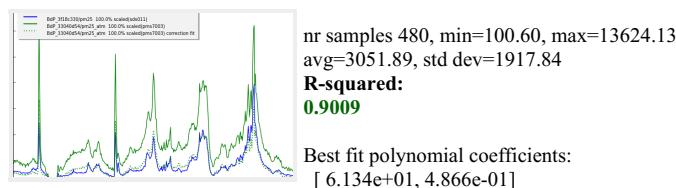


nr samples 480, min=2136.36, max=3351.71
avg=2402.76, std dev=146.93

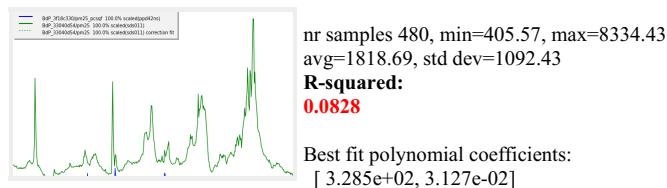
R-squared:
0.2955

Best fit polynomial coefficients:
[-7.193e+03, 3.637e+00]

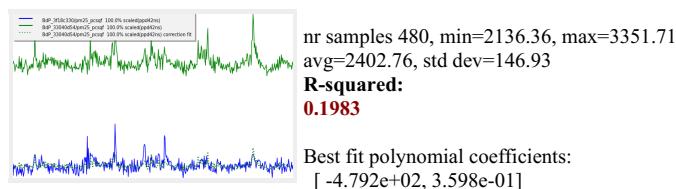
Correlation 24 - PM2.5 - kit BdP_3f18c330 sensor type SDS011 with kit BdP_33040d54 sensor type PMS7003:



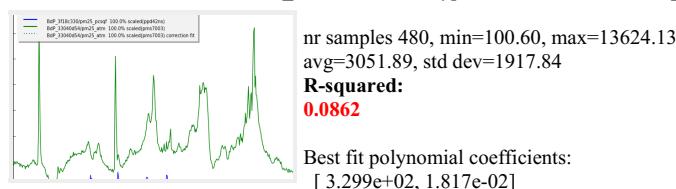
Correlation 25 - PM2.5 - kit BdP_3f18c330 sensor type PPD42NS with kit BdP_33040d54 sensor type SDS011:



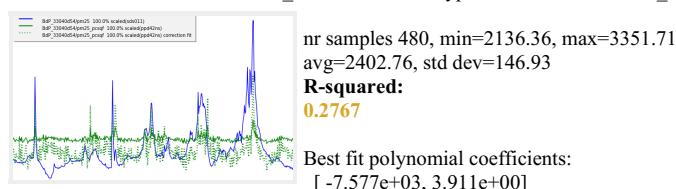
Correlation 26 - PM2.5 - kit BdP_3f18c330 sensor type PPD42NS with kit BdP_33040d54 sensor type PPD42NS:



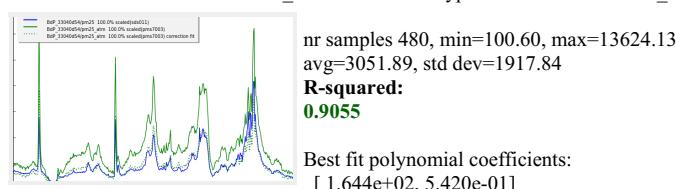
Correlation 27 - PM2.5 - kit BdP_3f18c330 sensor type PPD42NS with kit BdP_33040d54 sensor type PMS7003:



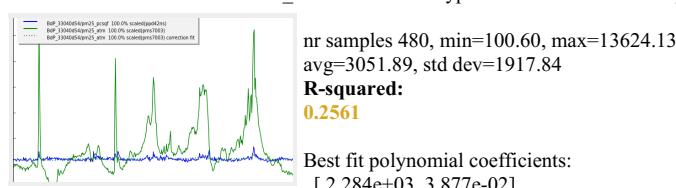
Correlation 28 - PM2.5 - kit BdP_33040d54 sensor type SDS011 with kit BdP_33040d54 sensor type PPD42NS:



Correlation 29 - PM2.5 - kit BdP_33040d54 sensor type SDS011 with kit BdP_33040d54 sensor type PMS7003:

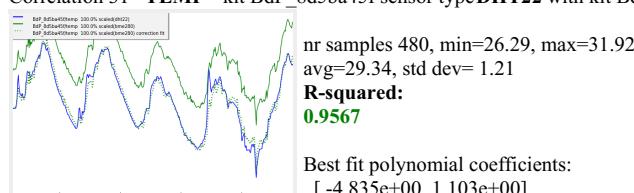


Correlation 30 - PM2.5 - kit BdP_33040d54 sensor type PPD42NS with kit BdP_33040d54 sensor type PMS7003:

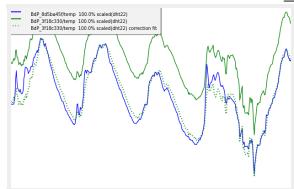


Measurement TEMP correlation key values

Correlation 31 - TEMP - kit BdP_8d5ba45f sensor type DHT22 with kit BdP_8d5ba45f sensor type BME280:



Correlation 32 - TEMP - kit BdP_8d5ba45f sensor type **DHT22** with kit BdP_3f18c330 sensor type **DHT22**:



nr samples 480, min=25.65, max=31.98

avg=29.38, std dev= 1.27

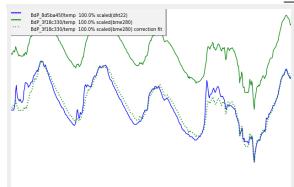
R-squared:

0.9365

Best fit polynomial coefficients:

[-2.888e+00, 1.036e+00]

Correlation 33 - TEMP - kit BdP_8d5ba45f sensor type **DHT22** with kit BdP_3f18c330 sensor type **BME280**:



nr samples 480, min=27.14, max=33.73

avg=30.98, std dev= 1.32

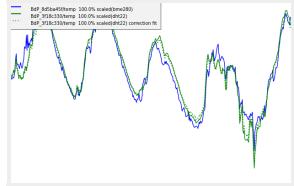
R-squared:

0.9179

Best fit polynomial coefficients:

[-3.082e+00, 9.883e-01]

Correlation 34 - TEMP - kit BdP_8d5ba45f sensor type **BME280** with kit BdP_3f18c330 sensor type **DHT22**:



nr samples 480, min=25.65, max=31.98

avg=29.38, std dev= 1.27

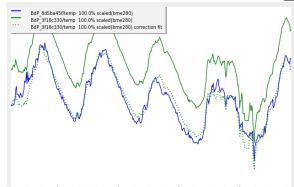
R-squared:

0.9411

Best fit polynomial coefficients:

[2.303e+00, 9.202e-01]

Correlation 35 - TEMP - kit BdP_8d5ba45f sensor type **BME280** with kit BdP_3f18c330 sensor type **BME280**:



nr samples 480, min=27.14, max=33.73

avg=30.98, std dev= 1.32

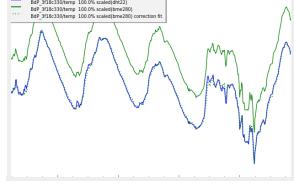
R-squared:

0.9377

Best fit polynomial coefficients:

[1.905e+00, 8.856e-01]

Correlation 36 - TEMP - kit BdP_3f18c330 sensor type **DHT22** with kit BdP_3f18c330 sensor type **BME280**:



nr samples 480, min=27.14, max=33.73

avg=30.98, std dev= 1.32

R-squared:

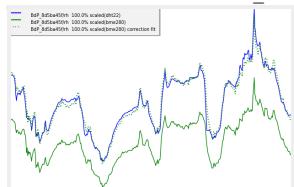
0.9956

Best fit polynomial coefficients:

[-4.200e-01, 9.619e-01]

Measurement RH correlation key values

Correlation 37 - RH - kit BdP_8d5ba45f sensor type **DHT22** with kit BdP_8d5ba45f sensor type **BME280**:



nr samples 480, min=35.96, max=56.00

avg=44.49, std dev= 3.70

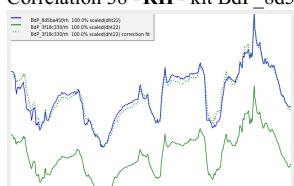
R-squared:

0.9761

Best fit polynomial coefficients:

[-7.952e+00, 1.340e+00]

Correlation 38 - RH - kit BdP_8d5ba45f sensor type **DHT22** with kit BdP_3f18c330 sensor type **DHT22**:



nr samples 480, min=30.02, max=53.51

avg=39.29, std dev= 4.22

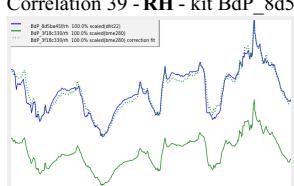
R-squared:

0.9635

Best fit polynomial coefficients:

[5.910e+00, 1.165e+00]

Correlation 39 - RH - kit BdP_8d5ba45f sensor type **DHT22** with kit BdP_3f18c330 sensor type **BME280**:



nr samples 480, min=29.35, max=49.46

avg=37.10, std dev= 3.56

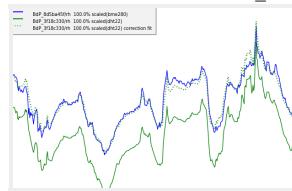
R-squared:

0.9557

Best fit polynomial coefficients:

[5.815e-01, 1.378e+00]

Correlation 40 - RH - kit BdP_8d5ba45f sensor type **BME280** with kit BdP_3f18c330 sensor type **DHT22**:



nr samples 480, min=30.02, max=53.51

avg=39.29, std dev= 4.22

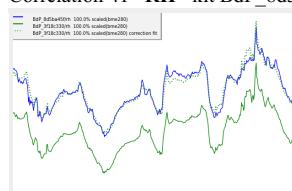
R-squared:

0.9625

Best fit polynomial coefficients:

[1.077e+01, 8.583e-01]

Correlation 41 - RH - kit BdP_8d5ba45f sensor type **BME280** with kit BdP_3f18c330 sensor type **BME280**:



nr samples 480, min=29.35, max=49.46

avg=37.10, std dev= 3.56

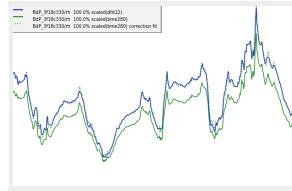
R-squared:

0.9604

Best fit polynomial coefficients:

[6.731e+00, 1.018e+00]

Correlation 42 - RH - kit BdP_3f18c330 sensor type **DHT22** with kit BdP_3f18c330 sensor type **BME280**:



nr samples 480, min=29.35, max=49.46

avg=37.10, std dev= 3.56

R-squared:

0.9958

Best fit polynomial coefficients:

[-4.661e+00, 1.185e+00]

Sensor dylos@BdP_8d5ba45f with sensor sds011@BdP_3f18c330

correlation report for pm10 (raw) measurements

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

Date of correlation report: Sat Aug 5 21:32:53 CEST 2017

From date 2017-07-30 upto 2017-08-04 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: 480 db records, deleted 0 NaN records.

Database table BdP_3f18c330 sensor (column) pm10: 480 db records, deleted 0 NaN records.

Collected 480 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 04 2017 00:00, interval timing 15m:0s.

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

number 480, min= 4.00, max=43.00

avg=11.11, std dev= 5.60

R-squared (R^2) with BdP_3f18c330/pm10: 0.4394

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

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

9.251e-01, 4.687e+00

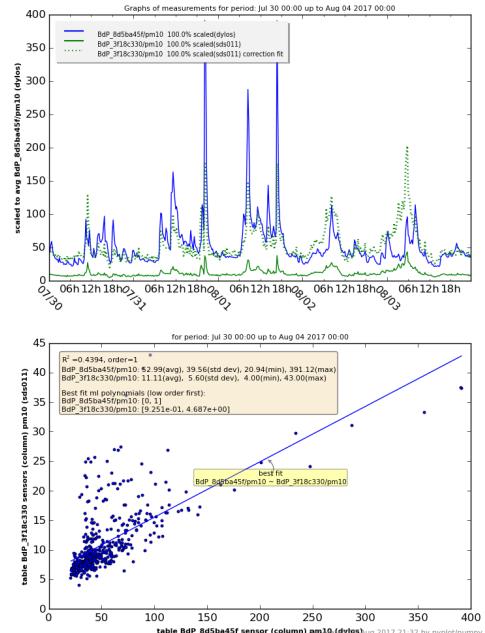
Statistical summary linear regression for BdP_8d5ba45f/pm10 with ['BdP_3f18c330/pm10']:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/pm10	R-squared:	0.439
Model:	OLS	Adj. R-squared:	0.438
Method:	Least Squares	F-statistic:	374.7
Date:	Sat, 05 Aug 2017	Prob (F-statistic):	4.60e-62
Time:	21:32:54	Log-Likelihood:	-2307.5
No. Observations:	480	AIC:	4619.
Df Residuals:	478	BIC:	4627.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_3f18c330/pm10	0.9251	3.011	0.307	0.759 -4.992 6.842

Omnibus:	297.740	Durbin-Watson:	0.389
Prob(Omnibus):	0.000	Jarque-Bera (JB):	6552.020
Skew:	2.261	Prob(JB):	0.00
Kurtosis:	20.526	Cond. No.	27.8



Sensor dylos@BdP_8d5ba45f with sensor ppd42ns@BdP_3f18c330

correlation report for pm10 (raw) measurements

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

Date of correlation report: Sat Aug 5 21:32:55 CEST 2017

From date 2017-07-30 upto 2017-08-04 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: 480 db records, deleted 0 NaN records.

Auto interval samples is (re)set to 1292 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) pm10_pcsqf: 463 db records, deleted 0 NaN records.

Collected 463 values in sample time frame (21m/32s) for the graph. Skipped 17 db records, could not find any value(s) in same sample interval.

Samples period: Jul 30 00:00 up to Aug 04 2017 00:00, interval timing 21m:32s.

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

number 463, min= 1.00, max=255.25

avg=53.51, std dev=32.78

R-squared (R^2) with BdP_3f18c330/pm10_pcsqf: 0.2164

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

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

2.332e+01, 5.684e-01

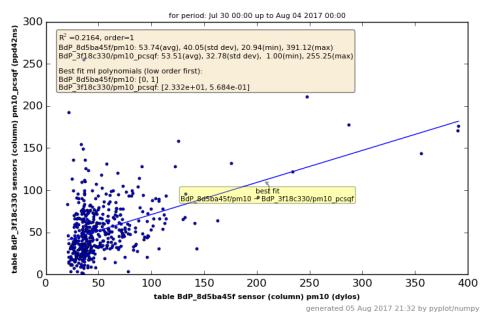
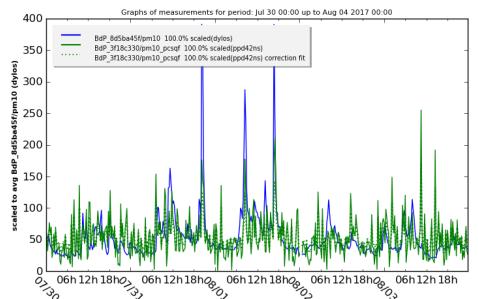
Statistical summary linear regression for BdP_8d5ba45f/pm10 with ['BdP_3f18c330/pm10_pcsqf']:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/pm10	R-squared:	0.216
Model:	OLS	Adj. R-squared:	0.215
Method:	Least Squares	F-statistic:	127.3
Date:	Sat, 05 Aug 2017	Prob (F-statistic):	3.10e-26
Time:	21:32:56	Log-Likelihood:	-2309.1
No. Observations:	463	AIC:	4622.
Df Residuals:	461	BIC:	4630.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_3f18c330/pm10_pcsqf	23.3216	3.162	7.377	0.000 17.109 29.534

Omnibus:	360.038	Durbin-Watson:	0.814
Prob(Omnibus):	0.000	Jarque-Bera (JB):	8857.459
Skew:	3.111	Prob(JB):	0.00
Kurtosis:	23.504	Cond. No.	120.



Sensor dylos@BdP_8d5ba45f with sensor sds011@BdP_33040d54

correlation report for pm10 (raw) measurements

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

Date of correlation report: Sat Aug 5 21:32:58 CEST 2017

From date 2017-07-30 upto 2017-08-04 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: 480 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm10: 480 db records, deleted 0 NaN records.

Collected 480 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 04 2017 00:00, interval timing 15m:0s.

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

number 480, min= 4.29, max=57.14

avg=12.84, std dev= 7.22

R-squared (R^2) with BdP_33040d54/pm10: 0.2883

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

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

1.522e+01, 2.942e+00

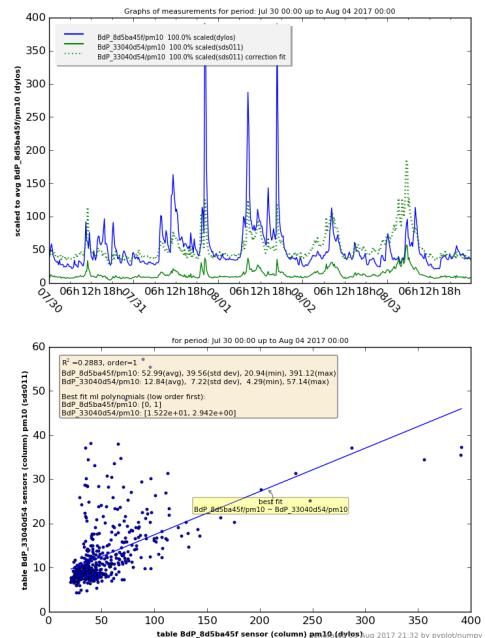
Statistical summary linear regression for BdP_8d5ba45f/pm10 with [BdP_33040d54/pm10]:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/pm10	R-squared:	0.288
Model:	OLS	Adj. R-squared:	0.287
Method:	Least Squares	F-statistic:	193.7
Date:	Sat, 05 Aug 2017	Prob (F-statistic):	3.35e-37
Time:	21:32:58	Log-Likelihood:	-2364.8
No. Observations:	480	AIC:	4734.
Df Residuals:	478	BIC:	4742.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm10	15.2188	3.114	4.888	0.000 9.101 21.337

Omnibus:	407.506	Durbin-Watson:	0.432
Prob(Omnibus):	0.000	Jarque-Bera (JB):	12953.249
Skew:	3.473	Prob(JB):	0.00
Kurtosis:	27.483	Cond. No.	30.2



Sensor dylos@BdP_8d5ba45f with sensor ppd42ns@BdP_33040d54

correlation report for pm10 (raw) measurements

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

Date of correlation report: Sat Aug 5 21:33:00 CEST 2017

From date 2017-07-30 upto 2017-08-04 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: 480 db records, deleted 0 NaN records.

Auto interval samples is (re)set to 1987 (avg+2*stddev)

Database table BdP_33040d54 sensor (column) pm10_pcsqf: 394 db records, deleted 0 NaN records.

Collected 474 values in sample time frame (33m/7s) for the graph. Skipped 6 db records, could not find any value(s) in same sample interval.

Samples period: Jul 30 00:00 up to Aug 04 2017 00:00, interval timing 33m:7s.

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

number 474, min= 1.00, max=195.88

avg=38.47, std dev=21.76

R-squared (R^2) with BdP_33040d54/pm10_pcsqf: 0.0407

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

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

3.912e+01, 3.684e-01

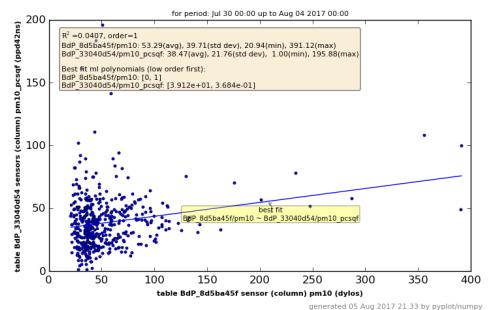
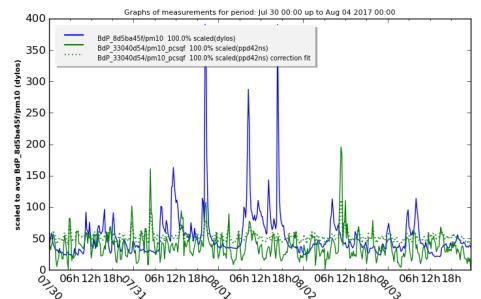
Statistical summary linear regression for BdP_8d5ba45f/pm10 with ['BdP_33040d54/pm10_pcsqf']:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/pm10	R-squared:	0.041
Model:	OLS	Adj. R-squared:	0.039
Method:	Least Squares	F-statistic:	20.04
Date:	Sat, 05 Aug 2017	Prob (F-statistic):	9.51e-06
Time:	21:33:00	Log-Likelihood:	-2407.8
No. Observations:	474	AIC:	4820.
Df Residuals:	472	BIC:	4828.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm10_pcsqf	39.1206	3.637	10.757	0.000 31.974 46.267

Omnibus:	469.583	Durbin-Watson:	0.507
Prob(Omnibus):	0.000	Jarque-Bera (JB):	17612.103
Skew:	4.388	Prob(JB):	0.00
Kurtosis:	31.543	Cond. No.	89.8



Sensor dylos@BdP_8d5ba45f with sensor pms7003@BdP_33040d54

correlation report for pm10 (raw) measurements

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

Date of correlation report: Sat Aug 5 21:33:02 CEST 2017

From date 2017-07-30 upto 2017-08-04 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: 480 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm10_atm: 480 db records, deleted 0 NaN records.

Collected 480 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 04 2017 00:00, interval timing 15m:0s.

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

number 480, min= 0.67, max=71.40

avg=16.24, std dev=10.05

R-squared (R^2) with BdP_33040d54/pm10_atm: 0.0545

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

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

3.806e+01, 9.185e-01

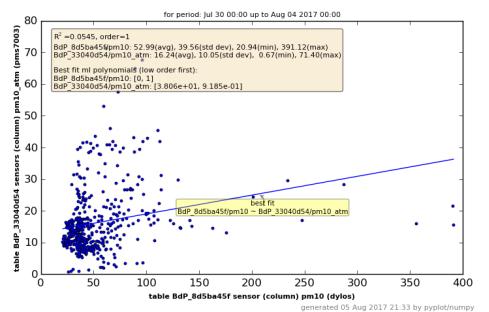
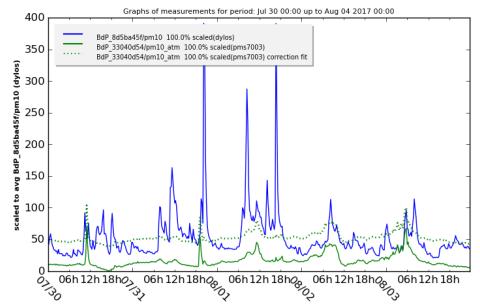
Statistical summary linear regression for BdP_8d5ba45f/pm10 with [BdP_33040d54/pm10_atm]:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/pm10	R-squared:	0.054
Model:	OLS	Adj. R-squared:	0.052
Method:	Least Squares	F-statistic:	27.54
Date:	Sat, 05 Aug 2017	Prob (F-statistic):	2.32e-07
Time:	21:33:02	Log-Likelihood:	-2433.0
No. Observations:	480	AIC:	4870.
Df Residuals:	478	BIC:	4878.
Df Model:	1		

	coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm10_atm	38.0649	3.344	11.384	0.000	31.495 44.635

Omnibus:	523.754	Durbin-Watson:	0.496
Prob(Omnibus):	0.000	Jarque-Bera (JB):	26551.985
Skew:	5.033	Prob(JB):	0.00
Kurtosis:	38.018	Cond. No.	36.4



Sensor sds011@BdP_3f18c330 with sensor ppd42ns@BdP_3f18c330

correlation report for pm10 (raw) measurements

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

Date of correlation report: Sat Aug 5 21:33:04 CEST 2017

From date 2017-07-30 upto 2017-08-04 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: 480 db records, deleted 0 NaN records.

Auto interval samples is (re)set to 1292 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) pm10_pcsqf: 463 db records, deleted 0 NaN records.

Collected 463 values in sample time frame (21m/32s) for the graph. Skipped 17 db records, could not find any value(s) in same sample interval.

Samples period: Jul 30 00:00 up to Aug 04 2017 00:00, interval timing 21m:32s.

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

number 463, min= 1.00, max=255.25

avg=53.51, std dev=32.78

R-squared (R^2) with BdP_3f18c330/pm10_pcsqf: 0.0909

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

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

8.450e+00, 5.197e-02

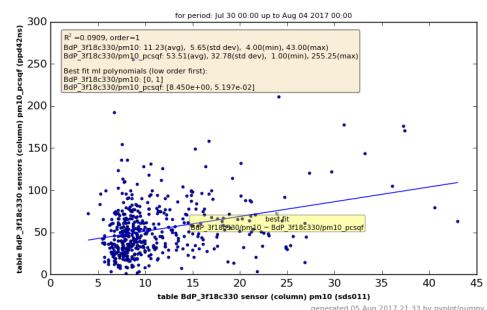
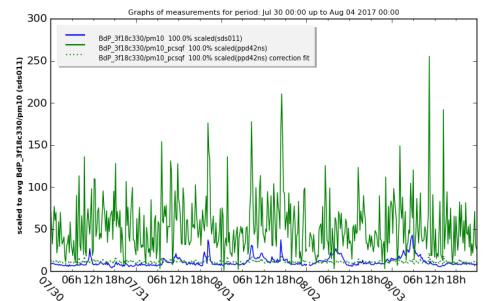
Statistical summary linear regression for BdP_3f18c330/pm10 with ['BdP_3f18c330/pm10_pcsqf']:

OLS Regression Results

Dep. Variable:	BdP_3f18c330/pm10	R-squared:	0.091
Model:	OLS	Adj. R-squared:	0.089
Method:	Least Squares	F-statistic:	46.08
Date:	Sat, 05 Aug 2017	Prob (F-statistic):	3.50e-11
Time:	21:33:04	Log-Likelihood:	-1436.7
No. Observations:	463	AIC:	2877.
Df Residuals:	461	BIC:	2886.
Df Model:	1		

	coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_3f18c330/pm10_pcsqf	8.4496	0.480	17.589	0.000	7.506 9.394

Omnibus:	200.142	Durbin-Watson:	0.406
Prob(Omnibus):	0.000	Jarque-Bera (JB):	854.747
Skew:	1.929	Prob(JB):	2.48e-186
Kurtosis:	8.424	Cond. No.	120.



Sensor sds011@BdP_3f18c330 with sensor sds011@BdP_33040d54

correlation report for pm10 (raw) measurements

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

Date of correlation report: Sat Aug 5 21:33:06 CEST 2017

From date 2017-07-30 upto 2017-08-04 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: 480 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm10: 480 db records, deleted 0 NaN records.

Collected 480 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 04 2017 00:00, interval timing 15m:0s.

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

number 480, min= 4.29, max=57.14

avg=12.84, std dev= 7.22

R-squared (R^2) with BdP_33040d54/pm10: 0.9345

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

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

1.491e+00, 7.491e-01

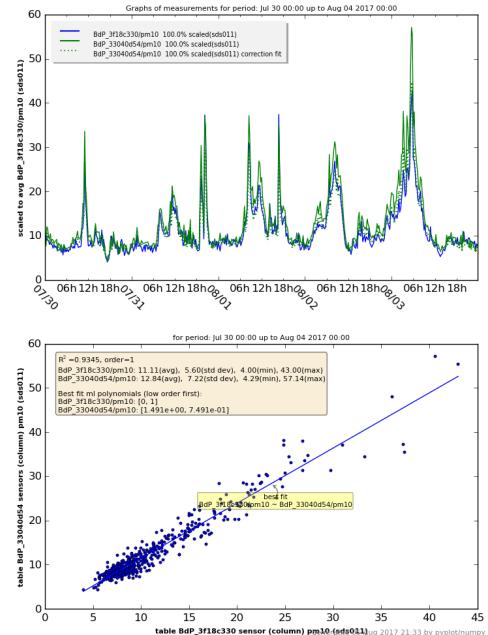
Statistical summary linear regression for BdP_3f18c330/pm10 with [BdP_33040d54/pm10]:

OLS Regression Results

Dep. Variable:	BdP_3f18c330/pm10	R-squared:	0.935
Model:	OLS	Adj. R-squared:	0.934
Method:	Least Squares	F-statistic:	6822.
Date:	Sat, 05 Aug 2017	Prob (F-statistic):	4.24e-285
Time:	21:33:06	Log-Likelihood:	-853.36
No. Observations:	480	AIC:	1711.
Df Residuals:	478	BIC:	1719.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm10	1.4912	0.134	11.163	0.000 1.229 1.754

Omnibus:	138.504	Durbin-Watson:	1.315
Prob(Omnibus):	0.000	Jarque-Bera (JB):	880.048
Skew:	1.087	Prob(JB):	7.94e-192
Kurtosis:	9.267	Cond. No.	30.2



Sensor sds011@BdP_3f18c330 with sensor ppd42ns@BdP_33040d54

correlation report for pm10 (raw) measurements

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

Date of correlation report: Sat Aug 5 21:33:08 CEST 2017

From date 2017-07-30 upto 2017-08-04 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: 480 db records, deleted 0 NaN records.

Auto interval samples is (re)set to 1987 (avg+2*stddev)

Database table BdP_33040d54 sensor (column) pm10_pcsqf: 394 db records, deleted 0 NaN records.

Collected 474 values in sample time frame (33m/7s) for the graph. Skipped 6 db records, could not find any value(s) in same sample interval.

Samples period: Jul 30 00:00 up to Aug 04 2017 00:00, interval timing 33m:7s.

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

number 474, min= 1.00, max=195.88

avg=38.47, std dev=21.76

R-squared (R^2) with BdP_33040d54/pm10_pcsqf: 0.0030

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

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

1.062e+01, 1.404e-02

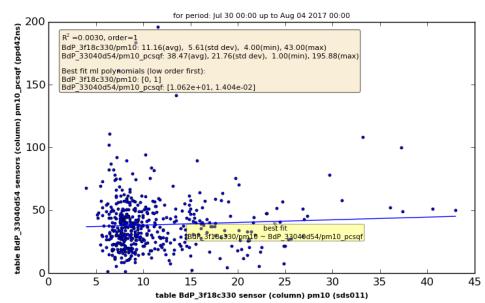
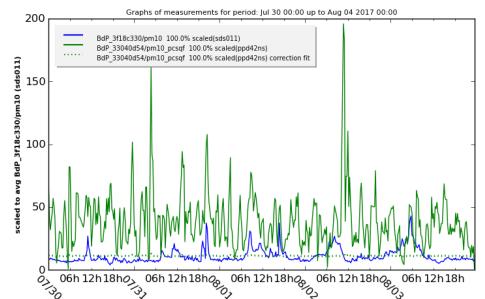
Statistical summary linear regression for BdP_3f18c330/pm10 with ['BdP_33040d54/pm10_pcsqf']:

OLS Regression Results

Dep. Variable:	BdP_3f18c330/pm10	R-squared:	0.003
Model:	OLS	Adj. R-squared:	0.001
Method:	Least Squares	F-statistic:	1.403
Date:	Sat, 05 Aug 2017	Prob (F-statistic):	0.237
Time:	21:33:08	Log-Likelihood:	-1489.5
No. Observations:	474	AIC:	2983.
Df Residuals:	472	BIC:	2991.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm10_pcsqf	10.6168	0.524	20.260	0.000 9.587 11.647

Omnibus:	237.465	Durbin-Watson:	0.283
Prob(Omnibus):	0.000	Jarque-Bera (JB):	1187.076
Skew:	2.234	Prob(JB):	1.70e-258
Kurtosis:	9.336	Cond. No.	89.8



Sensor sds011@BdP_3f18c330 with sensor pms7003@BdP_33040d54

correlation report for pm10 (raw) measurements

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

Date of correlation report: Sat Aug 5 21:33:10 CEST 2017

From date 2017-07-30 upto 2017-08-04 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: 480 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm10_atm: 480 db records, deleted 0 NaN records.

Collected 480 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 04 2017 00:00, interval timing 15m:0s.

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

number 480, min= 0.67, max=71.40

avg=16.24, std dev=10.05

R-squared (R^2) with BdP_33040d54/pm10_atm: 0.6651

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

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

3.734e+00, 4.539e-01

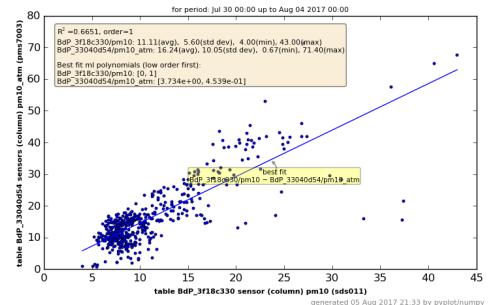
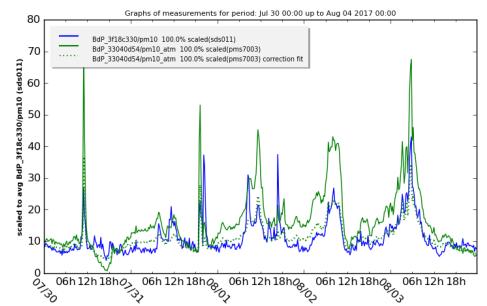
Statistical summary linear regression for BdP_3f18c330/pm10 with [BdP_33040d54/pm10_atm]:

OLS Regression Results

Dep. Variable:	BdP_3f18c330/pm10	R-squared:	0.665
Model:	OLS	Adj. R-squared:	0.664
Method:	Least Squares	F-statistic:	949.2
Date:	Sat, 05 Aug 2017	Prob (F-statistic):	1.30e-115
Time:	21:33:10	Log-Likelihood:	-1245.1
No. Observations:	480	AIC:	2494.
Df Residuals:	478	BIC:	2503.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm10_atm	3.7340	0.281	13.266	0.000 3.181 4.287

Omnibus:	390.755	Durbin-Watson:	0.593
Prob(Omnibus):	0.000	Jarque-Bera (JB):	9397.781
Skew:	3.370	Prob(JB):	0.00
Kurtosis:	23.603	Cond. No.	36.4



Sensor ppd42ns@BdP_3f18c330 with sensor sds011@BdP_33040d54

correlation report for pm10 (raw) measurements

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

Date of correlation report: Sat Aug 5 21:33:12 CEST 2017

From date 2017-07-30 upto 2017-08-04 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 1292 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) pm10_pcsqf: 463 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm10: 336 db records, deleted 0 NaN records.

Collected 463 values in sample time frame (21m/32s) for the graph.

Samples period: Jul 30 00:00 up to Aug 04 2017 00:00, interval timing 21m:32s.

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

number 463, min= 4.36, max=53.18

avg=12.89, std dev= 7.16

R-squared (R^2) with BdP_33040d54/pm10: 0.0580

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

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

3.929e+01, 1.103e+00

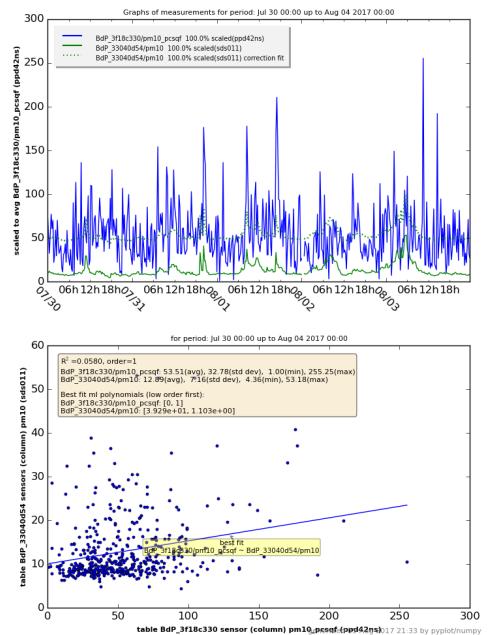
Statistical summary linear regression for BdP_3f18c330/pm10_pcsqf with ['BdP_33040d54/pm10']:

OLS Regression Results

Dep. Variable:	BdP_3f18c330/pm10_pcsqf	R-squared:	0.058
Model:	OLS	Adj. R-squared:	0.056
Method:	Least Squares	F-statistic:	28.38
Date:	Sat, 05 Aug 2017	Prob (F-statistic):	1.56e-07
Time:	21:33:13	Log-Likelihood:	-2258.9
No. Observations:	463	AIC:	4522.
Df Residuals:	461	BIC:	4530.
Df Model:	1		

coef std err t P>|t| [95.0% Conf. Int.]
BdP_33040d54/pm10 39.2931 3.053 12.870 0.000 33.294 45.293

Omnibus: 169.728 Durbin-Watson: 1.598
Prob(Omnibus): 0.000 Jarque-Bera (JB): 730.742
Skew: 1.587 Prob(JB): 2.10e-159
Kurtosis: 8.273 Cond. No. 30.5



**Sensor ppd42ns@BdP_3f18c330 with
sensor ppd42ns@BdP_33040d54**

correlation report for pm10 (raw) measurements

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

Date of correlation report: Sat Aug 5 21:33:14 CEST 2017

From date 2017-07-30 upto 2017-08-04 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
Sensors located at: ENUV_Sensor

Graphs based on data INFLUX from influxdb on server localhost as user teus:
localhost:8086 (http://127.0.0.1:8086) (user:teus)

Auto interval samples is (re)set to 1292 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) pm10_pcsql: 463 db records, deleted 0 NaN records.

Auto interval samples is (re)set to 1981 (minimal- 50% -maximal)

Database table BdP_33040d54 sensor (column) pm10_pcsqf: 307 db records, deleted 0 NaN records.

Collected 440 values in sample time frame (33m/1s) for the graph. Skipped 23 db records, could not find any value(s) in same sample interval.

Samples period: Jul 30 00:00 up to Aug 04 2017 00:00, interval timing 33m:1s.

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

number 440, min= 1.00, max=191.67

avg=39.24, std dev=24.79

R-squared (R^2) with BdP_33040d54/pm10_pcsqf: 0.0049

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

BdP_3f18c330/pm10_pcsql (ppd42ns)-> best fit coefficients:

5.032e+01, 9.362e-02

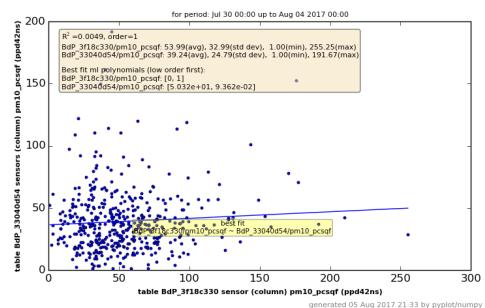
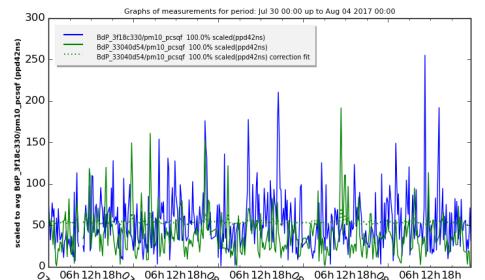
Statistical summary linear regression for BdP_3fl8c330/pm10_pcsqf with [BdP_33040d54/pm10_pcsqf]:

OLS Regression Results

Dep. Variable:	BdP_3fl18c330/pm10_pcsql	R-squared:	0.005
Model:	OLS	Adj. R-squared:	0.003
Method:	Least Squares	F-statistic:	2.177
Date:	Sat, 05 Aug 2017	Prob (F-statistic):	0.141
Time:	21:33:15	Log-Likelihood:	-2161.6
No. Observations:	440	AIC:	4327.
Df Residuals:	438	BIC:	4335.
Df Model:	1		

	coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm10_pcsqf	50.3165	2.945	17.086	0.000	44.529 56.104

Omnibus:	163.945	Durbin-Watson:	1.517
Prob(Omnibus):	0.000	Jarque-Bera (JB):	665.330
Skew:	1.633	Prob(JB):	3.35e-145
Kurtosis:	8.062	Cond. No.	87.0



Sensor ppd42ns@BdP_3f18c330 with sensor pms7003@BdP_33040d54

correlation report for pm10 (raw) measurements

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

Date of correlation report: Sat Aug 5 21:33:16 CEST 2017

From date 2017-07-30 upto 2017-08-04 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 1292 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) pm10_pcsqf: 463 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm10_atm: 336 db records, deleted 0 NaN records.

Collected 463 values in sample time frame (21m/32s) for the graph.

Samples period: Jul 30 00:00 up to Aug 04 2017 00:00, interval timing 21m:32s.

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

number 463, min= 0.62, max=62.81

avg=16.29, std dev=10.10

R-squared (R^2) with BdP_33040d54/pm10_atm: 0.0053

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

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

4.967e+01, 2.357e-01

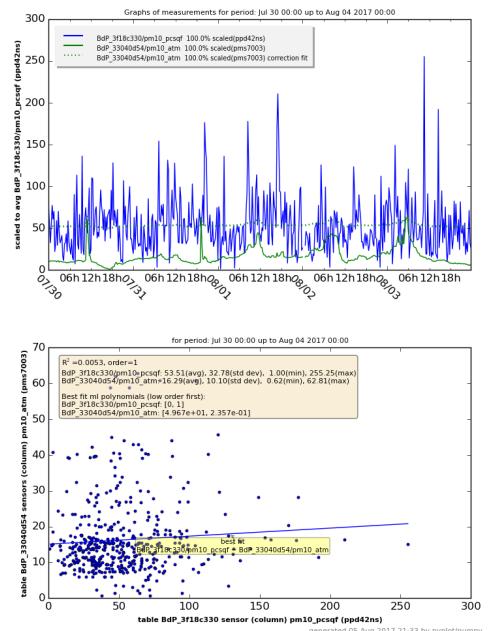
Statistical summary linear regression for BdP_3f18c330/pm10_pcsqf with ['BdP_33040d54/pm10_atm']:

OLS Regression Results

Dep. Variable:	BdP_3f18c330/pm10_pcsqf	R-squared:	0.005
Model:	OLS	Adj. R-squared:	0.003
Method:	Least Squares	F-statistic:	2.446
Date:	Sat, 05 Aug 2017	Prob (F-statistic):	0.119
Time:	21:33:17	Log-Likelihood:	-2271.5
No. Observations:	463	AIC:	4547.
Df Residuals:	461	BIC:	4555.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm10_atm	49.6739	2.888	17.198	0.000 43.998 55.350

Omnibus:	177.497	Durbin-Watson:	1.536
Prob(Omnibus):	0.000	Jarque-Bera (JB):	746.209
Skew:	1.681	Prob(JB):	9.18e-163
Kurtosis:	8.232	Cond. No.	36.4



Sensor sds011@BdP_33040d54 with sensor ppd42ns@BdP_33040d54

correlation report for pm10 (raw) measurements

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

Date of correlation report: Sat Aug 5 21:33:18 CEST 2017

From date 2017-07-30 upto 2017-08-04 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: 480 db records, deleted 0 NaN records.

Auto interval samples is (re)set to 1987 (avg+2*stddev)

Database table BdP_33040d54 sensor (column) pm10_pcsqf: 394 db records, deleted 0 NaN records.

Collected 474 values in sample time frame (33m/7s) for the graph. Skipped 6 db records, could not find any value(s) in same sample interval.

Samples period: Jul 30 00:00 up to Aug 04 2017 00:00, interval timing 33m:7s.

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

number 474, min= 1.00, max=195.88

avg=38.47, std dev=21.76

R-squared (R^2) with BdP_33040d54/pm10_pcsqf: 0.0003

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

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

1.266e+01, 5.831e-03

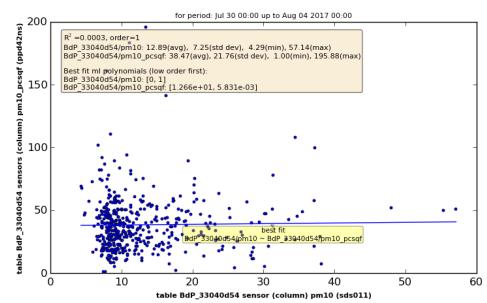
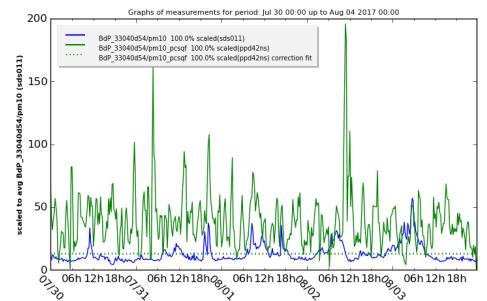
Statistical summary linear regression for BdP_33040d54/pm10 with [BdP_33040d54/pm10_pcsqf]:

OLS Regression Results

Dep. Variable:	BdP_33040d54/pm10	R-squared:	0.000
Model:	OLS	Adj. R-squared:	-0.002
Method:	Least Squares	F-statistic:	0.1445
Date:	Sat, 05 Aug 2017	Prob (F-statistic):	0.704
Time:	21:33:19	Log-Likelihood:	-1611.7
No. Observations:	474	AIC:	3227.
Df Residuals:	472	BIC:	3236.
Df Model:	1		

	coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm10_pcsqf	12.6620	0.678	18.675	0.000	11.330 13.994

Omnibus:	251.928	Durbin-Watson:	0.217
Prob(Omnibus):	0.000	Jarque-Bera (JB):	1452.093
Skew:	2.333	Prob(JB):	0.00
Kurtosis:	10.194	Cond. No.	89.8



Sensor sds011@BdP_33040d54 with sensor pms7003@BdP_33040d54

correlation report for pm10 (raw) measurements

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

Date of correlation report: Sat Aug 5 21:33:20 CEST 2017

From date 2017-07-30 upto 2017-08-04 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: 480 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm10_atm: 480 db records, deleted 0 NaN records.

Collected 480 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 04 2017 00:00, interval timing 15m:0s.

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

number 480, min= 0.67, max=71.40

avg=16.24, std dev=10.05

R-squared (R^2) with BdP_33040d54/pm10_atm: 0.7531

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

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

2.712e+00, 6.234e-01

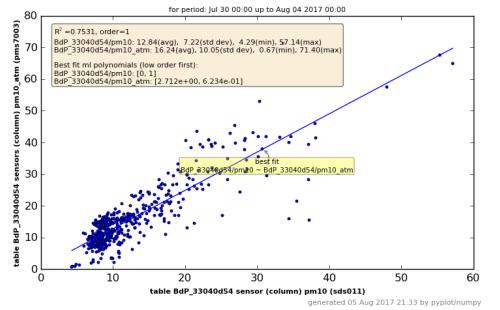
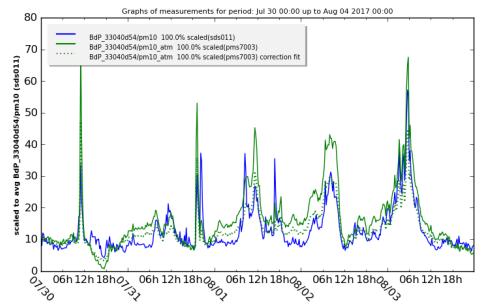
Statistical summary linear regression for BdP_33040d54/pm10 with [BdP_33040d54/pm10_atm]:

OLS Regression Results

Dep. Variable:	BdP_33040d54/pm10	R-squared:	0.753
Model:	OLS	Adj. R-squared:	0.753
Method:	Least Squares	F-statistic:	1458.
Date:	Sat, 05 Aug 2017	Prob (F-statistic):	2.75e-147
Time:	21:33:21	Log-Likelihood:	-1294.3
No. Observations:	480	AIC:	2593.
Df Residuals:	478	BIC:	2601.
Df Model:	1		

coef std err t P>|t| [95.0% Conf. Int.]
BdP_33040d54/pm10_atm 2.7116 0.312 8.695 0.000 2.099 3.324

Omnibus:	255.993	Durbin-Watson:	0.537
Prob(Omnibus):	0.000	Jarque-Bera (JB):	2486.446
Skew:	2.114	Prob(JB):	0.00
Kurtosis:	13.318	Cond. No.	36.4



Sensor ppd42ns@BdP_33040d54 with sensor pms7003@BdP_33040d54

correlation report for pm10 (raw) measurements

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

Date of correlation report: Sat Aug 5 21:33:22 CEST 2017

From date 2017-07-30 upto 2017-08-04 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 1987 (avg+2*stddev)

Database table BdP_33040d54 sensor (column) pm10_pcsqf: 394 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm10_atm: 218 db records, deleted 0 NaN records.

Collected 394 values in sample time frame (33m/7s) for the graph.

Samples period: Jul 30 00:00 up to Aug 04 2017 00:00, interval timing 33m:7s.

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

number 394, min= 0.91, max=63.79

avg=16.62, std dev=10.08

R-squared (R^2) with BdP_33040d54/pm10_atm: 0.0006

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

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

3.934e+01, -6.880e-02

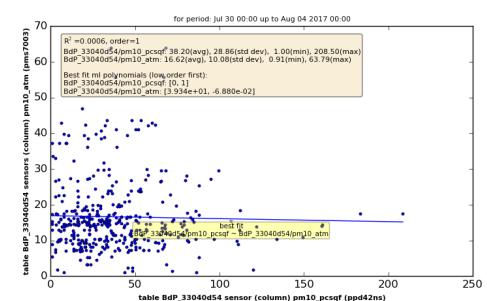
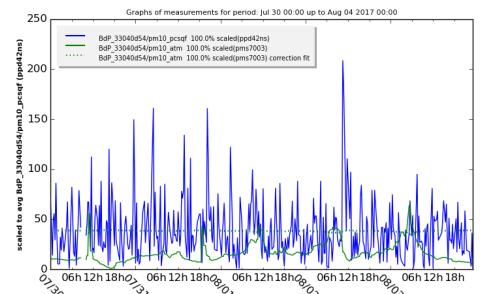
Statistical summary linear regression for BdP_33040d54/pm10_pcsqf with ['BdP_33040d54/pm10_atm']:

OLS Regression Results

Dep. Variable:	BdP_33040d54/pm10_pcsqf	R-squared:	0.001
Model:	OLS	Adj. R-squared:	-0.002
Method:	Least Squares	F-statistic:	0.2265
Date:	Sat, 05 Aug 2017	Prob (F-statistic):	0.634
Time:	21:33:23	Log-Likelihood:	-1883.7
No. Observations:	394	AIC:	3771.
Df Residuals:	392	BIC:	3779.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm10_atm	39.3395	2.810	14.001	0.000 33.815 44.864

Omnibus:	168.446	Durbin-Watson:	1.807
Prob(Omnibus):	0.000	Jarque-Bera (JB):	773.315
Skew:	1.834	Prob(JB):	1.19e-168
Kurtosis:	8.801	Cond. No.	37.5



Sensor dylos@BdP_8d5ba45f with sensor sds011@BdP_3f18c330

correlation report for pm25 (raw) measurements

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

Date of correlation report: Sat Aug 5 21:33:24 CEST 2017

From date 2017-07-30 upto 2017-08-04 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: 480 db records, deleted 0 NaN records.

Database table BdP_3f18c330 sensor (column) pm25: 480 db records, deleted 0 NaN records.

Collected 480 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 04 2017 00:00, interval timing 15m:0s.

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

number 480, min=316.14, max=7901.43

avg=1546.29, std dev=983.13

R-squared (R^2) with BdP_3f18c330/pm25: 0.8092

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

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

1.059e+02, 2.811e-01

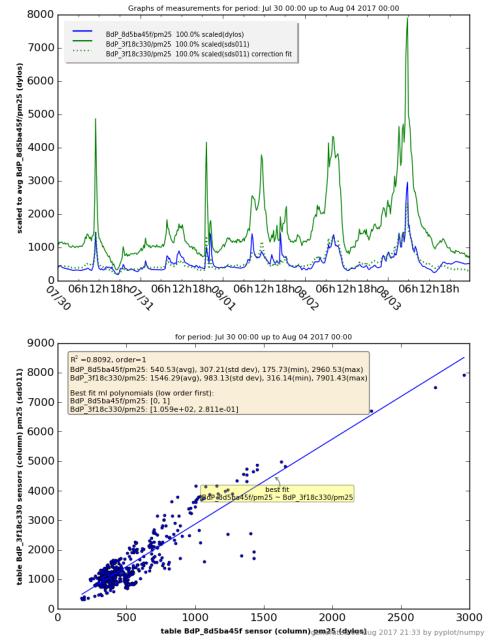
Statistical summary linear regression for BdP_8d5ba45f/pm25 with ['BdP_3f18c330/pm25']:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/pm25	R-squared:	0.809
Model:	OLS	Adj. R-squared:	0.809
Method:	Least Squares	F-statistic:	2027.
Date:	Sat, 05 Aug 2017	Prob (F-statistic):	4.91e-174
Time:	21:33:25	Log-Likelihood:	-3032.8
No. Observations:	480	AIC:	6070.
Df Residuals:	478	BIC:	6078.
Df Model:	1		

coef std err t P>|t| [95.0% Conf. Int.]
BdP_3f18c330/pm25 105.8935 11.441 9.256 0.000 83.413 128.374

Omnibus: 245.751 Durbin-Watson: 0.361
Prob(Omnibus): 0.000 Jarque-Bera (JB): 1850.133
Skew: 2.106 Prob(JB): 0.00
Kurtosis: 11.647 Cond. No. 3.42e+03



Sensor dylos@BdP_8d5ba45f with sensor ppd42ns@BdP_3f18c330

correlation report for pm25 (raw) measurements

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

Date of correlation report: Sat Aug 5 21:33:26 CEST 2017

From date 2017-07-30 upto 2017-08-04 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: 480 db records, deleted 0 NaN records.

Database table BdP_3f18c330 sensor (column) pm25_pcsqf: 480 db records, deleted 0 NaN records.

Collected 480 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 04 2017 00:00, interval timing 15m:0s.

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

number 480, min=139.90, max=1198.20

avg=385.40, std dev=118.73

R-squared (R^2) with BdP_3f18c330/pm25_pcsqf: 0.2595

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

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

3.253e+01, 1.318e+00

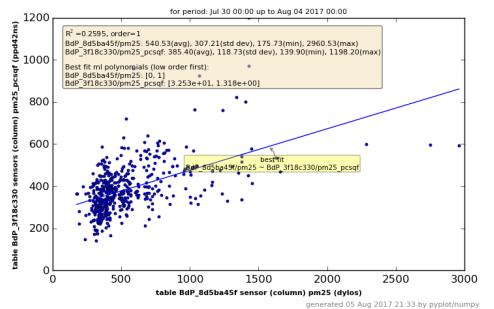
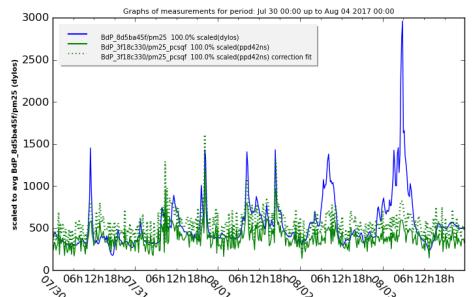
Statistical summary linear regression for BdP_8d5ba45f/pm25 with [BdP_3f18c330/pm25_pcsqf]:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/pm25	R-squared:	0.260
Model:	OLS	Adj. R-squared:	0.258
Method:	Least Squares	F-statistic:	167.5
Date:	Sat, 05 Aug 2017	Prob (F-statistic):	4.65e-33
Time:	21:33:27	Log-Likelihood:	-3358.2
No. Observations:	480	AIC:	6720.
Df Residuals:	478	BIC:	6729.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_3f18c330/pm25_pcsqf	32.5348	41.069	0.792	0.429 -48.163 113.233

Omnibus:	358.454	Durbin-Watson:	0.494
Prob(Omnibus):	0.000	Jarque-Bera (JB):	6582.342
Skew:	3.064	Prob(JB):	0.00
Kurtosis:	20.075	Cond. No.	1.37e+03



Sensor dylos@BdP_8d5ba45f with sensor sds011@BdP_33040d54

correlation report for pm25 (raw) measurements

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

Date of correlation report: Sat Aug 5 21:33:28 CEST 2017

From date 2017-07-30 upto 2017-08-04 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: 480 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm25: 480 db records, deleted 0 NaN records.

Collected 480 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 04 2017 00:00, interval timing 15m:0s.

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

number 480, min=405.57, max=8334.43

avg=1818.69, std dev=1092.43

R-squared (R^2) with BdP_33040d54/pm25: 0.7772

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

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

8.964e+01, 2.479e-01

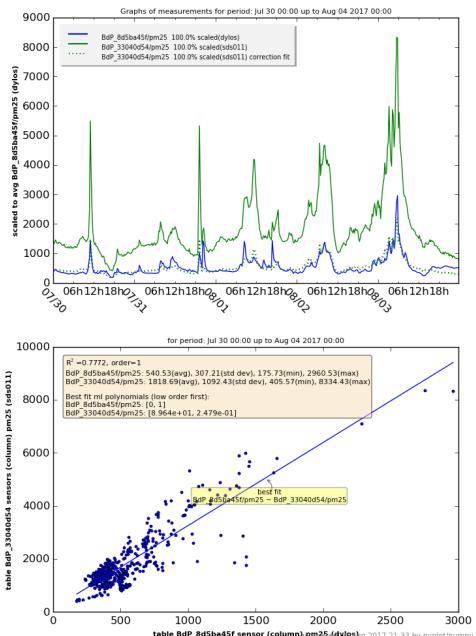
Statistical summary linear regression for BdP_8d5ba45f/pm25 with ['BdP_33040d54/pm25']:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/pm25	R-squared:	0.777
Model:	OLS	Adj. R-squared:	0.777
Method:	Least Squares	F-statistic:	1668.
Date:	Sat, 05 Aug 2017	Prob (F-statistic):	5.64e-158
Time:	21:33:29	Log-Likelihood:	-3069.9
No. Observations:	480	AIC:	6144.
Df Residuals:	478	BIC:	6152.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm25	89.6379	12.880	6.960	0.000 64.330 114.945

Omnibus:	255.188	Durbin-Watson:	0.364
Prob(Omnibus):	0.000	Jarque-Bera (JB):	2102.311
Skew:	2.173	Prob(JB):	0.00
Kurtosis:	12.286	Cond. No.	4.12e+03



Sensor dylos@BdP_8d5ba45f with sensor ppd42ns@BdP_33040d54

correlation report for pm25 (raw) measurements

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

Date of correlation report: Sat Aug 5 21:33:30 CEST 2017

From date 2017-07-30 upto 2017-08-04 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: 480 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm25_pcsqf: 480 db records, deleted 0 NaN records.

Collected 480 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 04 2017 00:00, interval timing 15m:0s.

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

number 480, min=2136.36, max=3351.71

avg=2402.76, std dev=146.93

R-squared (R^2) with BdP_33040d54/pm25_pcsqf: 0.4418

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

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

-2.799e+03, 1.390e+00

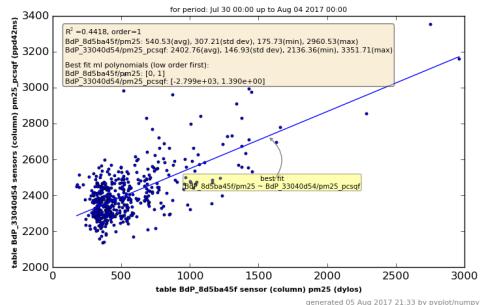
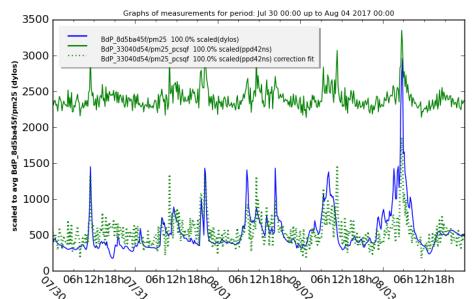
Statistical summary linear regression for BdP_8d5ba45f/pm25 with [BdP_33040d54/pm25_pcsqf]:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/pm25	R-squared:	0.442
Model:	OLS	Adj. R-squared:	0.441
Method:	Least Squares	F-statistic:	378.4
Date:	Sat, 05 Aug 2017	Prob (F-statistic):	1.64e-62
Time:	21:33:31	Log-Likelihood:	-3290.4
No. Observations:	480	AIC:	6580.
Df Residuals:	478	BIC:	6593.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm25_pcsqf	-2798.6921	171.988	-16.273	0.000 -3136.638 -2460.747

Omnibus:	126.941	Durbin-Watson:	0.725
Prob(Omnibus):	0.000	Jarque-Bera (JB):	578.407
Skew:	1.089	Prob(JB):	2.51e-126
Kurtosis:	7.917	Cond. No.	3.94e+04



Sensor dylos@BdP_8d5ba45f with sensor pms7003@BdP_33040d54

correlation report for pm25 (raw) measurements

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

Date of correlation report: Sat Aug 5 21:33:32 CEST 2017

From date 2017-07-30 upto 2017-08-04 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: 480 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm25_atm: 480 db records, deleted 0 NaN records.

Collected 480 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 04 2017 00:00, interval timing 15m:0s.

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

number 480, min=100.60, max=13624.13

avg=3051.89, std dev=1917.84

R-squared (R^2) with BdP_33040d54/pm25_atm: 0.6605

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

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

1.432e+02, 1.302e-01

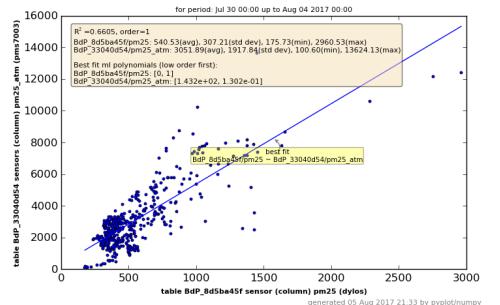
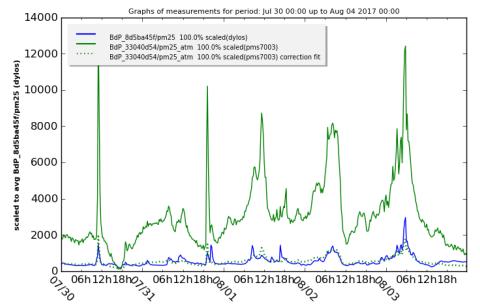
Statistical summary linear regression for BdP_8d5ba45f/pm25 with [BdP_33040d54/pm25_atm]:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/pm25	R-squared:	0.660
Model:	OLS	Adj. R-squared:	0.660
Method:	Least Squares	F-statistic:	929.8
Date:	Sat, 05 Aug 2017	Prob (F-statistic):	3.41e-114
Time:	21:33:33	Log-Likelihood:	-3171.1
No. Observations:	480	AIC:	6346.
Df Residuals:	478	BIC:	6354.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm25_atm	143.2346	15.388	9.308	0.000 [112.998, 173.471]

Omnibus:	252.485	Durbin-Watson:	0.326
Prob(Omnibus):	0.000	Jarque-Bera (JB):	2205.819
Skew:	2.118	Prob(JB):	0.00
Kurtosis:	12.610	Cond. No.:	6.77e+03



Sensor sds011@BdP_3f18c330 with sensor ppd42ns@BdP_3f18c330

correlation report for pm25 (raw) measurements

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

Date of correlation report: Sat Aug 5 21:33:34 CEST 2017

From date 2017-07-30 upto 2017-08-04 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: 480 db records, deleted 0 NaN records.

Database table BdP_3f18c330 sensor (column) pm25_pcsqf: 480 db records, deleted 0 NaN records.

Collected 480 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 04 2017 00:00, interval timing 15m:0s.

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

number 480, min=139.90, max=1198.20

avg=385.40, std dev=118.73

R-squared (R^2) with BdP_3f18c330/pm25_pcsqf: 0.0952

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

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

5.614e+02, 2.555e+00

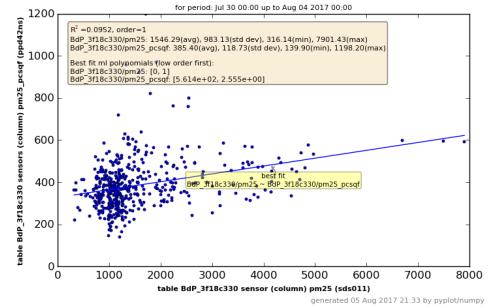
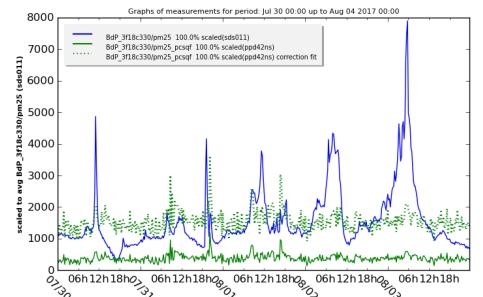
Statistical summary linear regression for BdP_3f18c330/pm25 with ['BdP_3f18c330/pm25_pcsqf']:

OLS Regression Results

Dep. Variable:	BdP_3f18c330/pm25	R-squared:	0.095
Model:	OLS	Adj. R-squared:	0.093
Method:	Least Squares	F-statistic:	50.32
Date:	Sat, 05 Aug 2017	Prob (F-statistic):	4.74e-12
Time:	21:33:35	Log-Likelihood:	-3964.6
No. Observations:	480	AIC:	7933.
Df Residuals:	478	BIC:	7942.
Df Model:	1		

coef std err t P>|t| [95.0% Conf. Int.]
BdP_3f18c330/pm25_pcsqf 561.4398 145.279 3.865 0.000 275.975 846.904

Omnibus: 252.892 Durbin-Watson: 0.219
Prob(Omnibus): 0.000 Jarque-Bera (JB): 1520.180
Skew: 2.289 Prob(JB): 0.00
Kurtosis: 10.419 Cond. No. 1.37e+03



Sensor sds011@BdP_3f18c330 with sensor sds011@BdP_33040d54

correlation report for pm25 (raw) measurements

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

Date of correlation report: Sat Aug 5 21:33:37 CEST 2017

From date 2017-07-30 upto 2017-08-04 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: 480 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm25: 480 db records, deleted 0 NaN records.

Collected 480 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 04 2017 00:00, interval timing 15m:0s.

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

number 480, min=405.57, max=8334.43

avg=1818.69, std dev=1092.43

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

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

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

-7.946e+01, 8.939e-01

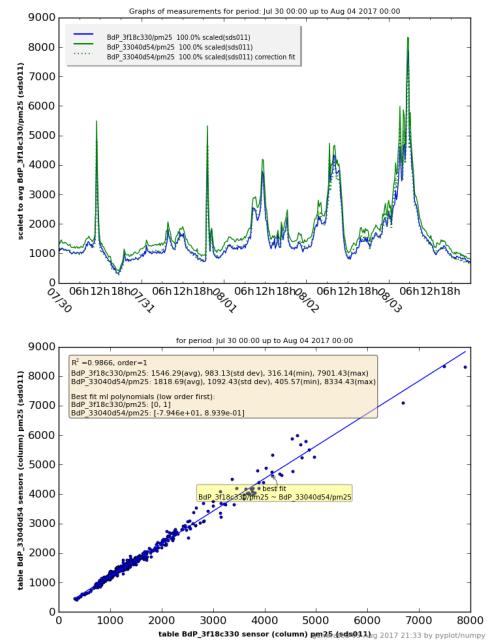
Statistical summary linear regression for BdP_3f18c330/pm25 with ['BdP_33040d54/pm25']:

OLS Regression Results

Dep. Variable:	BdP_3f18c330/pm25	R-squared:	0.987
Model:	OLS	Adj. R-squared:	0.987
Method:	Least Squares	F-statistic:	3.529e+04
Date:	Sat, 05 Aug 2017	Prob (F-statistic):	0.00
Time:	21:33:37	Log-Likelihood:	-2953.0
No. Observations:	480	AIC:	5910.
Df Residuals:	478	BIC:	5918.
Df Model:	1		

coefficient standard error t P>|t| [95.0% Conf. Int.]
BdP_33040d54/pm25 -79.4634 10.096 -7.871 0.000 -99.301 -59.625

Omnibus: 131.712 Durbin-Watson: 1.092
Prob(Omnibus): 0.000 Jarque-Bera (JB): 1425.110
Skew: -0.850 Prob(JB): 3.48e-310
Kurtosis: 11.269 Cond. No. 4.12e+03



Sensor sds011@BdP_3f18c330 with sensor ppd42ns@BdP_33040d54

correlation report for pm25 (raw) measurements

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

Date of correlation report: Sat Aug 5 21:33:39 CEST 2017

From date 2017-07-30 upto 2017-08-04 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: 480 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm25_pcsqf: 480 db records, deleted 0 NaN records.

Collected 480 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 04 2017 00:00, interval timing 15m:0s.

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

number 480, min=2136.36, max=3351.71

avg=2402.76, std dev=146.93

R-squared (R^2) with BdP_33040d54/pm25_pcsqf: 0.2955

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

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

-7.193e+03, 3.637e+00

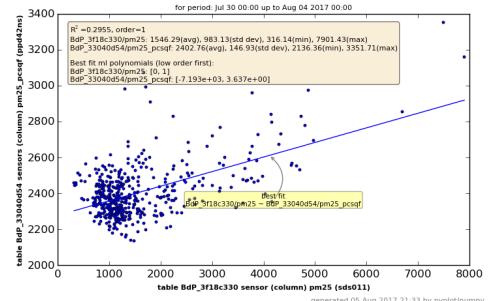
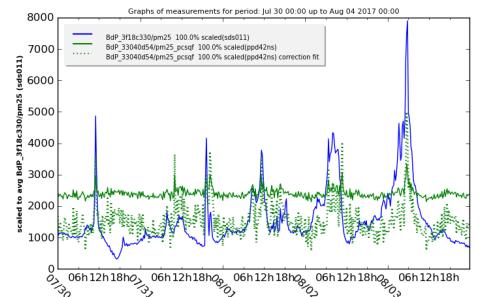
Statistical summary linear regression for BdP_3f18c330/pm25 with [BdP_33040d54/pm25_pcsqf]:

OLS Regression Results

Dep. Variable:	BdP_3f18c330/pm25	R-squared:	0.296
Model:	OLS	Adj. R-squared:	0.294
Method:	Least Squares	F-statistic:	200.5
Date:	Sat, 05 Aug 2017	Prob (F-statistic):	2.93e-38
Time:	21:33:39	Log-Likelihood:	-3904.6
No. Observations:	480	AIC:	7813.
Df Residuals:	478	BIC:	7822.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm25_pcsqf	-7193.1427618.350	-11.633	0.000	-8408.164 -5978.122

Omnibus:	87.813	Durbin-Watson:	0.378
Prob(Omnibus):	0.000	Jarque-Bera (JB):	171.374
Skew:	1.016	Prob(JB):	6.12e-38
Kurtosis:	5.107	Cond. No.	3.94e+04



Sensor sds011@BdP_3f18c330 with sensor pms7003@BdP_33040d54

correlation report for pm25 (raw) measurements

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

Date of correlation report: Sat Aug 5 21:33:41 CEST 2017

From date 2017-07-30 upto 2017-08-04 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: 480 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm25_atm: 480 db records, deleted 0 NaN records.

Collected 480 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 04 2017 00:00, interval timing 15m:0s.

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

number 480, min=100.60, max=13624.13

avg=3051.89, std dev=1917.84

R-squared (R^2) with BdP_33040d54/pm25_atm: 0.9009

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

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

6.134e+01, 4.866e-01

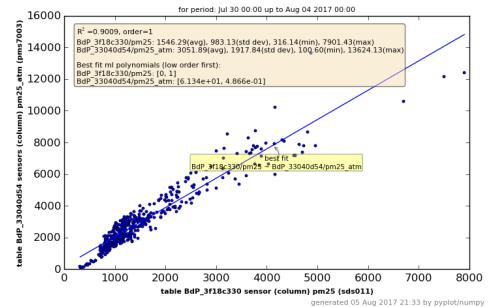
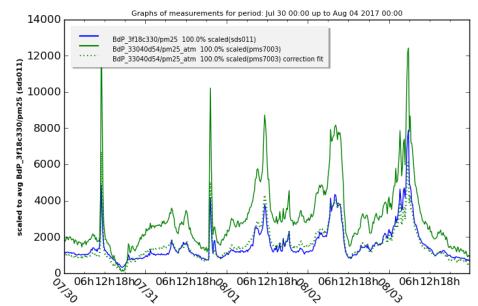
Statistical summary linear regression for BdP_3f18c330/pm25 with ['BdP_33040d54/pm25_atm']:

OLS Regression Results

Dep. Variable:	BdP_3f18c330/pm25	R-squared:	0.901
Model:	OLS	Adj. R-squared:	0.901
Method:	Least Squares	F-statistic:	4347.
Date:	Sat, 05 Aug 2017	Prob (F-statistic):	4.17e-242
Time:	21:33:41	Log-Likelihood:	-3433.8
No. Observations:	480	AIC:	6872.
Df Residuals:	478	BIC:	6880.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm25_atm	61.3394	26.602	2.306	0.022 9.069 113.610

Omnibus:	115.355	Durbin-Watson:	0.308
Prob(Omnibus):	0.000	Jarque-Bera (JB):	1075.796
Skew:	0.743	Prob(JB):	2.48e-234
Kurtosis:	10.182	Cond. No.	6.77e+03



Sensor ppd42ns@BdP_3f18c330 with sensor sds011@BdP_33040d54

correlation report for pm25 (raw) measurements

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

Date of correlation report: Sat Aug 5 21:33:43 CEST 2017

From date 2017-07-30 upto 2017-08-04 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: 480 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm25: 480 db records, deleted 0 NaN records.

Collected 480 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 04 2017 00:00, interval timing 15m:0s.

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

number 480, min=405.57, max=8334.43

avg=1818.69, std dev=1092.43

R-squared (R^2) with BdP_33040d54/pm25: 0.0828

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

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

3.285e+02, 3.127e-02

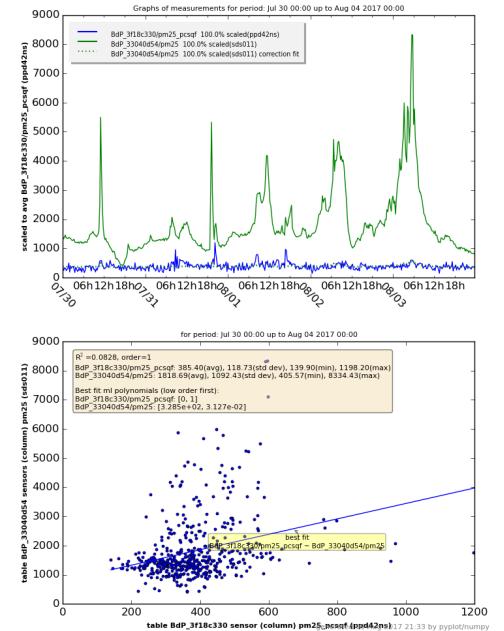
Statistical summary linear regression for BdP_3f18c330/pm25_pcsqf with ['BdP_33040d54/pm25']:

OLS Regression Results

Dep. Variable:	BdP_3f18c330/pm25_pcsqf	R-squared:	0.083
Model:	OLS	Adj. R-squared:	0.081
Method:	Least Squares	F-statistic:	43.13
Date:	Sat, 05 Aug 2017	Prob (F-statistic):	1.34e-10
Time:	21:33:43	Log-Likelihood:	-2953.3
No. Observations:	480	AIC:	5911.
Df Residuals:	478	BIC:	5919.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm25	328.5386	10.101	32.526	0.000 308.691 348.386

Omnibus:	230.266	Durbin-Watson:	1.313
Prob(Omnibus):	0.000	Jarque-Bera (JB):	1812.652
Skew:	1.919	Prob(JB):	0.00
Kurtosis:	11.712	Cond. No.	4.12e+03



Sensor ppd42ns@BdP_3f18c330 with sensor ppd42ns@BdP_33040d54

correlation report for pm25 (raw) measurements

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

Date of correlation report: Sat Aug 5 21:33:45 CEST 2017

From date 2017-07-30 upto 2017-08-04 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: 480 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm25_pcsqf: 480 db records, deleted 0 NaN records.

Collected 480 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 04 2017 00:00, interval timing 15m:0s.

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

number 480, min=2136.36, max=3351.71

avg=2402.76, std dev=146.93

R-squared (R^2) with BdP_33040d54/pm25_pcsqf: 0.1983

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

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

-4.792e+02, 3.598e-01

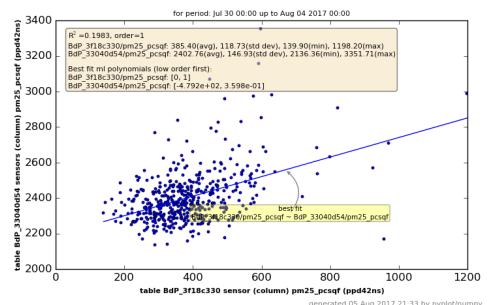
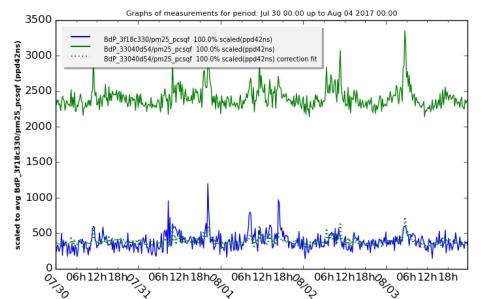
Statistical summary linear regression for BdP_3f18c330/pm25_pcsqf with ['BdP_33040d54/pm25_pcsqf']:

OLS Regression Results

Dep. Variable:	BdP_3f18c330/pm25_pcsqf	R-squared:	0.198
Model:	OLS	Adj. R-squared:	0.197
Method:	Least Squares	F-statistic:	118.2
Date:	Sat, 05 Aug 2017	Prob (F-statistic):	9.36e-25
Time:	21:33:45	Log-Likelihood:	-2920.9
No. Observations:	480	AIC:	5846.
Df Residuals:	478	BIC:	5854.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm25_pcsqf	-479.1520	79.664	-6.015	0.000 -635.686 -322.618

Omnibus:	161.275	Durbin-Watson:	1.686
Prob(Omnibus):	0.000	Jarque-Bera (JB):	835.776
Skew:	1.375	Prob(JB):	3.26e-182
Kurtosis:	8.851	Cond. No.	3.94e+04



Sensor ppd42ns@BdP_3f18c330 with sensor pms7003@BdP_33040d54

correlation report for pm25 (raw) measurements

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

Date of correlation report: Sat Aug 5 21:33:47 CEST 2017

From date 2017-07-30 upto 2017-08-04 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: 480 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm25_atm: 480 db records, deleted 0 NaN records.

Collected 480 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 04 2017 00:00, interval timing 15m:0s.

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

number 480, min=100.60, max=13624.13

avg=3051.89, std dev=1917.84

R-squared (R^2) with BdP_33040d54/pm25_atm: 0.0862

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

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

3.299e+02, 1.817e-02

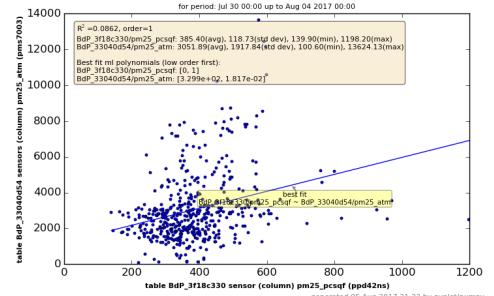
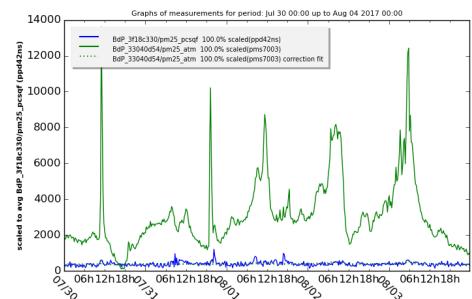
Statistical summary linear regression for BdP_3f18c330/pm25_pcsqf with ['BdP_33040d54/pm25_atm']:

OLS Regression Results

Dep. Variable:	BdP_3f18c330/pm25_pcsqf	R-squared:	0.086
Model:	OLS	Adj. R-squared:	0.084
Method:	Least Squares	F-statistic:	45.08
Date:	Sat, 05 Aug 2017	Prob (F-statistic):	5.38e-11
Time:	21:33:47	Log-Likelihood:	-2952.4
No. Observations:	480	AIC:	5909.
Df Residuals:	478	BIC:	5917.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm25_atm	329.9360	9.757	33.816	0.000 310.765 349.108

Omnibus:	233.102	Durbin-Watson:	1.323
Prob(Omnibus):	0.000	Jarque-Bera (JB):	1925.428
Skew:	1.930	Prob(JB):	0.00
Kurtosis:	12.020	Cond. No.	6.77e+03



Sensor sds011@BdP_33040d54 with sensor ppd42ns@BdP_33040d54

correlation report for pm25 (raw) measurements

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

Date of correlation report: Sat Aug 5 21:33:49 CEST 2017

From date 2017-07-30 upto 2017-08-04 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: 480 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm25_pcsqf: 480 db records, deleted 0 NaN records.

Collected 480 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 04 2017 00:00, interval timing 15m:0s.

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

number 480, min=2136.36, max=3351.71

avg=2402.76, std dev=146.93

R-squared (R^2) with BdP_33040d54/pm25_pcsqf: 0.2767

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

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

-7.577e+03, 3.911e+00

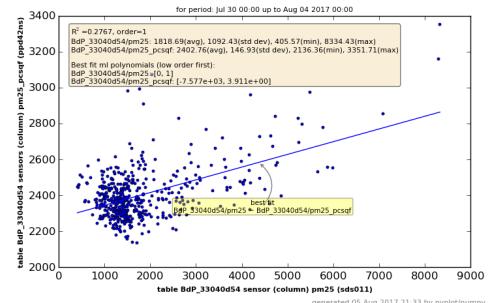
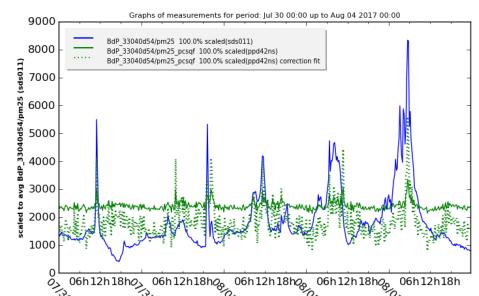
Statistical summary linear regression for BdP_33040d54/pm25 with [BdP_33040d54/pm25_pcsqf]:

OLS Regression Results

Dep. Variable:	BdP_33040d54/pm25	R-squared:	0.277
Model:	OLS	Adj. R-squared:	0.275
Method:	Least Squares	F-statistic:	182.8
Date:	Sat, 05 Aug 2017	Prob (F-statistic):	1.67e-35
Time:	21:33:50	Log-Likelihood:	-3961.5
No. Observations:	480	AIC:	7927.
Df Residuals:	478	BIC:	7935.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm25_pcsqf	-7577.4545	696.230	-10.884	0.000 -8945.503 -6209.406

Omnibus:	88.812	Durbin-Watson:	0.356
Prob(Omnibus):	0.000	Jarque-Bera (JB):	171.713
Skew:	1.031	Prob(JB):	5.16e-38
Kurtosis:	5.081	Cond. No.	3.94e+04



Sensor sds011@BdP_33040d54 with sensor pms7003@BdP_33040d54

correlation report for pm25 (raw) measurements

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

Date of correlation report: Sat Aug 5 21:33:51 CEST 2017

From date 2017-07-30 upto 2017-08-04 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: 480 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm25_atm: 480 db records, deleted 0 NaN records.

Collected 480 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 04 2017 00:00, interval timing 15m:0s.

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

number 480, min=100.60, max=13624.13

avg=3051.89, std dev=1917.84

R-squared (R^2) with BdP_33040d54/pm25_atm: 0.9055

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

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

1.644e+02, 5.420e-01

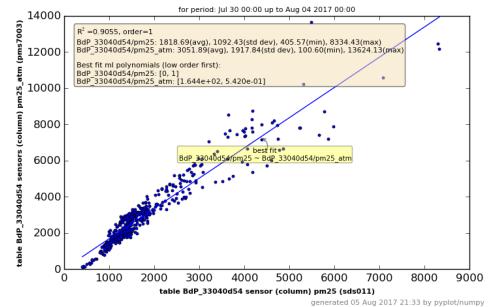
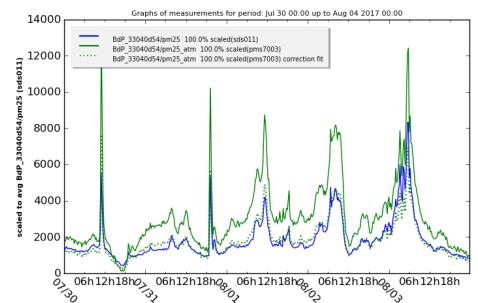
Statistical summary linear regression for BdP_33040d54/pm25 with [BdP_33040d54/pm25_atm]:

OLS Regression Results

Dep. Variable:	BdP_33040d54/pm25	R-squared:	0.906
Model:	OLS	Adj. R-squared:	0.905
Method:	Least Squares	F-statistic:	4583.
Date:	Sat, 05 Aug 2017	Prob (F-statistic):	4.59e-247
Time:	21:33:52	Log-Likelihood:	-3472.9
No. Observations:	480	AIC:	6950.
Df Residuals:	478	BIC:	6958.
Df Model:	1		

	coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm25_atm	164.4248	28.861	5.697	0.000	107.714 221.136

Omnibus:	151.743	Durbin-Watson:	0.304
Prob(Omnibus):	0.000	Jarque-Bera (JB):	1475.751
Skew:	1.072	Prob(JB):	0.00
Kurtosis:	11.318	Cond. No.	6.77e+03



Sensor ppd42ns@BdP_33040d54 with sensor pms7003@BdP_33040d54

correlation report for pm25 (raw) measurements

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

Date of correlation report: Sat Aug 5 21:33:53 CEST 2017

From date 2017-07-30 upto 2017-08-04 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: 480 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm25_atm: 480 db records, deleted 0 NaN records.

Collected 480 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 04 2017 00:00, interval timing 15m:0s.

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

number 480, min=100.60, max=13624.13

avg=3051.89, std dev=1917.84

R-squared (R^2) with BdP_33040d54/pm25_atm: 0.2561

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

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

2.284e+03, 3.877e-02

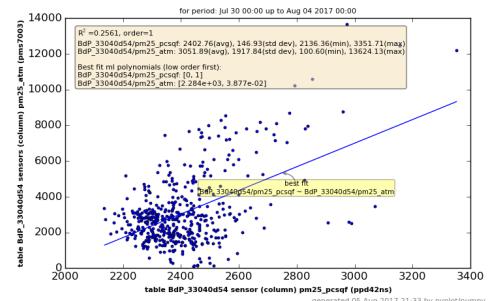
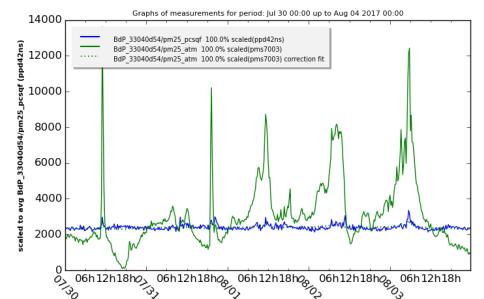
Statistical summary linear regression for BdP_33040d54/pm25_pcsqf with [BdP_33040d54/pm25_atm]:

OLS Regression Results

Dep. Variable:	BdP_33040d54/pm25_pcsqf	R-squared:	0.256
Model:	OLS	Adj. R-squared:	0.255
Method:	Least Squares	F-statistic:	164.6
Date:	Sat, 05 Aug 2017	Prob (F-statistic):	1.41e-32
Time:	21:33:54	Log-Likelihood:	-3005.3
No. Observations:	480	AIC:	6015.
Df Residuals:	478	BIC:	6023.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm25_atm	2284.4316	10.894	209.692	0.000 2263.025 2305.838

Omnibus:	138.393	Durbin-Watson:	1.132
Prob(Omnibus):	0.000	Jarque-Bera (JB):	466.156
Skew:	1.310	Prob(JB):	5.97e-102
Kurtosis:	7.055	Cond. No.	6.77e+03



Sensor dht22@BdP_8d5ba45f with sensor bme280@BdP_8d5ba45f

correlation report for temp (raw) measurements

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

Date of correlation report: Sat Aug 5 21:33:55 CEST 2017

From date 2017-07-30 upto 2017-08-04 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: 480 db records, deleted 0 NaN records.

Database table BdP_8d5ba45f sensor (column) temp: 480 db records, deleted 0 NaN records.

Collected 480 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 04 2017 00:00, interval timing 15m:0s.

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

number 480, min=26.29, max=31.92

avg=29.34, std dev= 1.21

R-squared (R^2) with BdP_8d5ba45f/temp: 0.9567

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

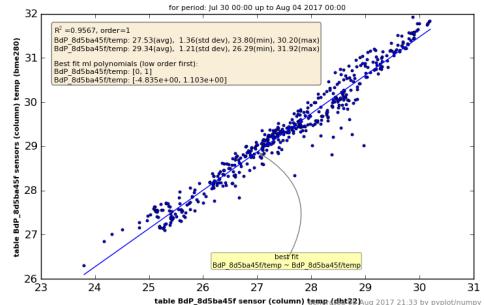
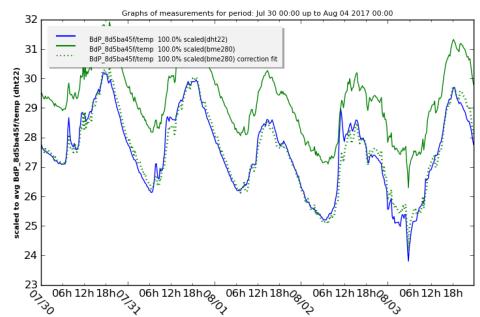
BdP_8d5ba45f/temp (bme280)-> best fit coefficients:

-4.835e+00, 1.103e+00

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

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/temp	R-squared:	0.957
Model:	OLS	Adj. R-squared:	0.957
Method:	Least Squares	F-statistic:	1.057e+04
Date:	Sat, 05 Aug 2017	Prob (F-statistic):	0.00
Time:	21:33:56	Log-Likelihood:	-76.279
No. Observations:	480	AIC:	156.6
Df Residuals:	478	BIC:	164.9
Df Model:	1		



coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_8d5ba45f/temp	-4.8353	0.315	-15.344	0.000 -5.455 -4.216

Omnibus:	163.351	Durbin-Watson:	0.235
Prob(Omnibus):	0.000	Jarque-Bera (JB):	848.631
Skew:	1.394	Prob(JB):	5.27e-185
Kurtosis:	8.887	Cond. No.	714.

Sensor dht22@BdP_8d5ba45f with sensor dht22@BdP_3f18c330

correlation report for temp (raw) measurements

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

Date of correlation report: Sat Aug 5 21:33:57 CEST 2017

From date 2017-07-30 upto 2017-08-04 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: 480 db records, deleted 0 NaN records.

Database table BdP_3f18c330 sensor (column) temp: 480 db records, deleted 0 NaN records.

Collected 480 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 04 2017 00:00, interval timing 15m:0s.

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

number 480, min=25.65, max=31.98

avg=29.38, std dev= 1.27

R-squared (R^2) with BdP_3f18c330/temp: 0.9365

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

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

-2.888e+00, 1.036e+00

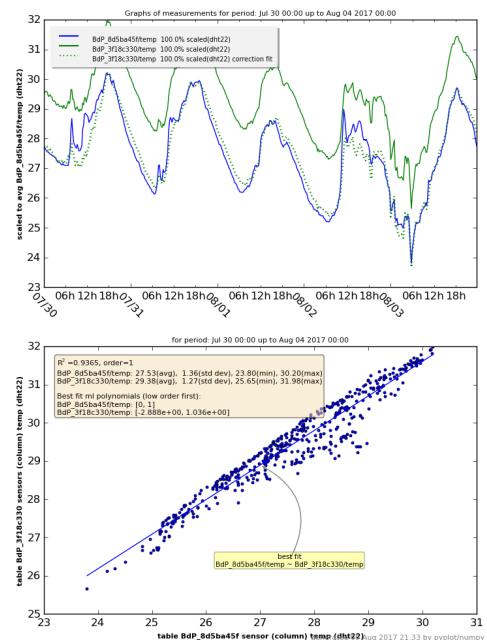
Statistical summary linear regression for BdP_8d5ba45f/temp with ['BdP_3f18c330/temp']:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/temp	R-squared:	0.937
Model:	OLS	Adj. R-squared:	0.936
Method:	Least Squares	F-statistic:	7050.
Date:	Sat, 05 Aug 2017	Prob (F-statistic):	2.67e-288
Time:	21:33:58	Log-Likelihood:	-168.32
No. Observations:	480	AIC:	340.6
Df Residuals:	478	BIC:	349.0
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_3f18c330/temp	-2.8878	0.363	-7.963	0.000 -3.600 -2.175

Omnibus:	120.148	Durbin-Watson:	0.096
Prob(Omnibus):	0.000	Jarque-Bera (JB):	239.504
Skew:	1.371	Prob(JB):	9.83e-53
Kurtosis:	5.111	Cond. No.	679.



Sensor dht22@BdP_8d5ba45f with sensor bme280@BdP_3f18c330

correlation report for temp (raw) measurements

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

Date of correlation report: Sat Aug 5 21:34:00 CEST 2017

From date 2017-07-30 upto 2017-08-04 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: 480 db records, deleted 0 NaN records.

Database table BdP_3f18c330 sensor (column) temp: 480 db records, deleted 0 NaN records.

Collected 480 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 04 2017 00:00, interval timing 15m:0s.

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

number 480, min=27.14, max=33.73

avg=30.98, std dev= 1.32

R-squared (R^2) with BdP_3f18c330/temp: 0.9179

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

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

-3.082e+00, 9.883e-01

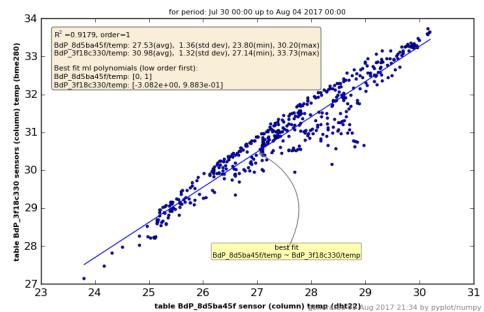
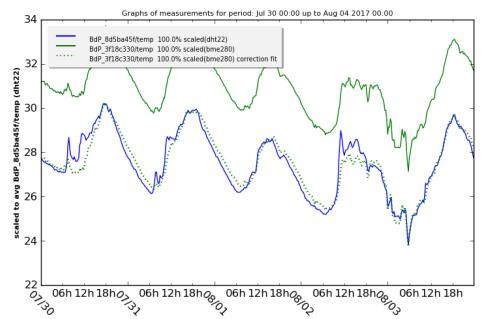
Statistical summary linear regression for BdP_8d5ba45f/temp with ['BdP_3f18c330/temp']:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/temp	R-squared:	0.918
Model:	OLS	Adj. R-squared:	0.918
Method:	Least Squares	F-statistic:	5341.
Date:	Sat, 05 Aug 2017	Prob (F-statistic):	1.46e-261
Time:	21:34:00	Log-Likelihood:	-230.13
No. Observations:	480	AIC:	464.3
Df Residuals:	478	BIC:	472.6
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_3f18c330/temp	-3.0821	0.419	-7.350	0.000 -3.906 -2.258

Omnibus:	138.632	Durbin-Watson:	0.106
Prob(Omnibus):	0.000	Jarque-Bera (JB):	340.979
Skew:	1.455	Prob(JB):	9.06e-75
Kurtosis:	5.929	Cond. No.	728.



Sensor bme280@BdP_8d5ba45f with sensor dht22@BdP_3f18c330

correlation report for temp (raw) measurements

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

Date of correlation report: Sat Aug 5 21:34:02 CEST 2017

From date 2017-07-30 upto 2017-08-04 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: 480 db records, deleted 0 NaN records.

Database table BdP_3f18c330 sensor (column) temp: 480 db records, deleted 0 NaN records.

Collected 480 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 04 2017 00:00, interval timing 15m:0s.

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

number 480, min=25.65, max=31.98

avg=29.38, std dev= 1.27

R-squared (R^2) with BdP_3f18c330/temp: 0.9411

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

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

2.303e+00, 9.202e-01

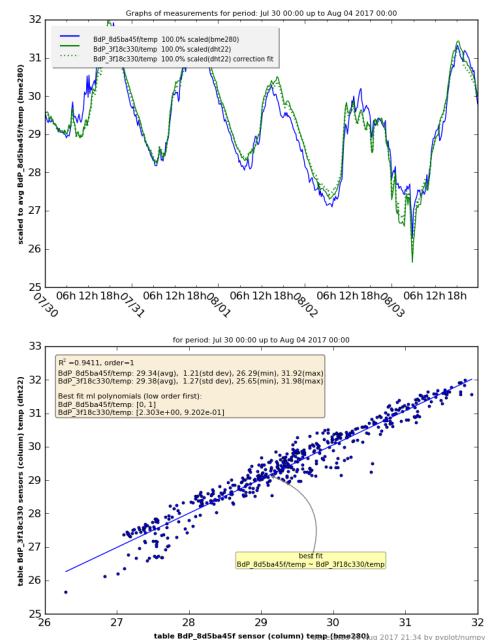
Statistical summary linear regression for BdP_8d5ba45f/temp with ['BdP_3f18c330/temp']:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/temp	R-squared:	0.941
Model:	OLS	Adj. R-squared:	0.941
Method:	Least Squares	F-statistic:	7631.
Date:	Sat, 05 Aug 2017	Prob (F-statistic):	5.19e-296
Time:	21:34:02	Log-Likelihood:	-92.664
No. Observations:	480	AIC:	189.3
Df Residuals:	478	BIC:	197.7
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_3f18c330/temp	2.3028	0.310	7.434	0.000 1.694 2.911

Omnibus:	47.601	Durbin-Watson:	0.230
Prob(Omnibus):	0.000	Jarque-Bera (JB):	61.834
Skew:	0.760	Prob(JB):	3.74e-14
Kurtosis:	3.884	Cond. No.	679.



Sensor bme280@BdP_8d5ba45f with sensor bme280@BdP_3f18c330

correlation report for temp (raw) measurements

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

Date of correlation report: Sat Aug 5 21:34:04 CEST 2017

From date 2017-07-30 upto 2017-08-04 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: 480 db records, deleted 0 NaN records.

Database table BdP_3f18c330 sensor (column) temp: 480 db records, deleted 0 NaN records.

Collected 480 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 04 2017 00:00, interval timing 15m:0s.

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

number 480, min=27.14, max=33.73

avg=30.98, std dev= 1.32

R-squared (R^2) with BdP_3f18c330/temp: 0.9377

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

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

1.905e+00, 8.856e-01

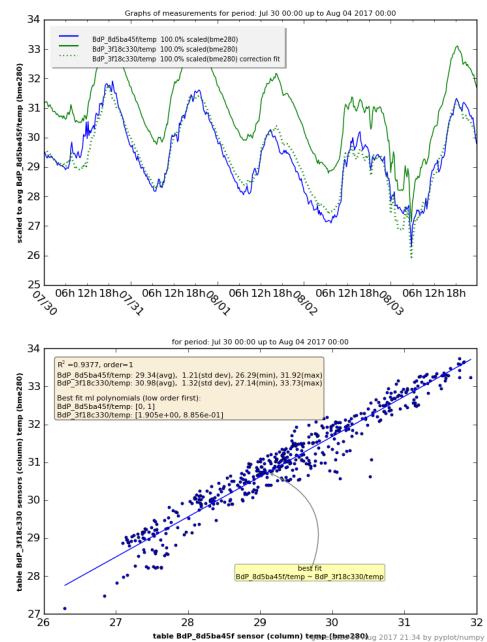
Statistical summary linear regression for BdP_8d5ba45f/temp with ['BdP_3f18c330/temp']:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/temp	R-squared:	0.938
Model:	OLS	Adj. R-squared:	0.938
Method:	Least Squares	F-statistic:	7190.
Date:	Sat, 05 Aug 2017	Prob (F-statistic):	3.34e-290
Time:	21:34:04	Log-Likelihood:	-106.09
No. Observations:	480	AIC:	216.2
Df Residuals:	478	BIC:	224.5
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_3f18c330/temp	1.9047	0.324	5.882	0.000 1.268 2.541

Omnibus:	59.134	Durbin-Watson:	0.243
Prob(Omnibus):	0.000	Jarque-Bera (JB):	89.680
Skew:	0.814	Prob(JB):	3.36e-20
Kurtosis:	4.353	Cond. No.	728.



Sensor dht22@BdP_3f18c330 with sensor bme280@BdP_3f18c330

correlation report for temp (raw) measurements

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

Date of correlation report: Sat Aug 5 21:34:06 CEST 2017

From date 2017-07-30 upto 2017-08-04 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: 480 db records, deleted 0 NaN records.

Database table BdP_3f18c330 sensor (column) temp: 480 db records, deleted 0 NaN records.

Collected 480 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 04 2017 00:00, interval timing 15m:0s.

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

number 480, min=27.14, max=33.73

avg=30.98, std dev= 1.32

R-squared (R^2) with BdP_3f18c330/temp: 0.9956

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

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

-4.200e-01, 9.619e-01

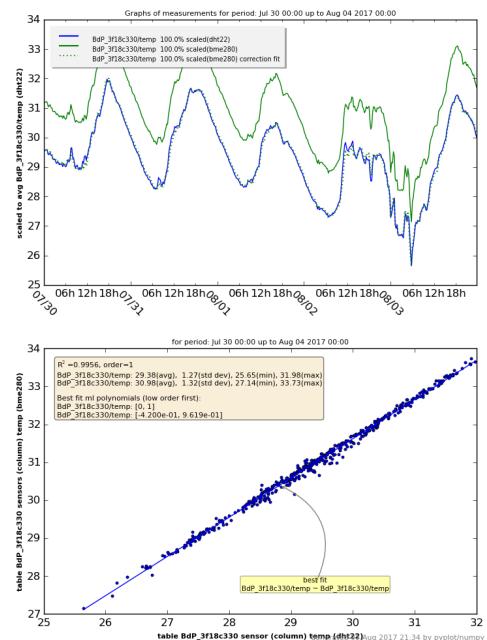
Statistical summary linear regression for BdP_3f18c330/temp with ['BdP_3f18c330/temp']:

OLS Regression Results

Dep. Variable:	BdP_3f18c330/temp	R-squared:	0.996
Model:	OLS	Adj. R-squared:	0.996
Method:	Least Squares	F-statistic:	1.071e+05
Date:	Sat, 05 Aug 2017	Prob (F-statistic):	0.00
Time:	21:34:06	Log-Likelihood:	502.47
No. Observations:	480	AIC:	-1001.
Df Residuals:	478	BIC:	-992.6
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_3f18c330/temp	-0.4200	0.091	-4.609	0.000 -0.599 -0.241

Omnibus:	125.099	Durbin-Watson:	0.451
Prob(Omnibus):	0.000	Jarque-Bera (JB):	417.642
Skew:	1.181	Prob(JB):	2.04e-91
Kurtosis:	6.912	Cond. No.	728.



Sensor dht22@BdP_8d5ba45f with sensor bme280@BdP_8d5ba45f

correlation report for rh (raw) measurements

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

Date of correlation report: Sat Aug 5 21:34:08 CEST 2017

From date 2017-07-30 upto 2017-08-04 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: 480 db records, deleted 0 NaN records.

Database table BdP_8d5ba45f sensor (column) rh: 480 db records, deleted 0 NaN records.

Collected 480 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 04 2017 00:00, interval timing 15m:0s.

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

number 480, min=35.96, max=56.00

avg=44.49, std dev= 3.70

R-squared (R^2) with BdP_8d5ba45f/rh: 0.9761

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

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

-7.952e+00, 1.340e+00

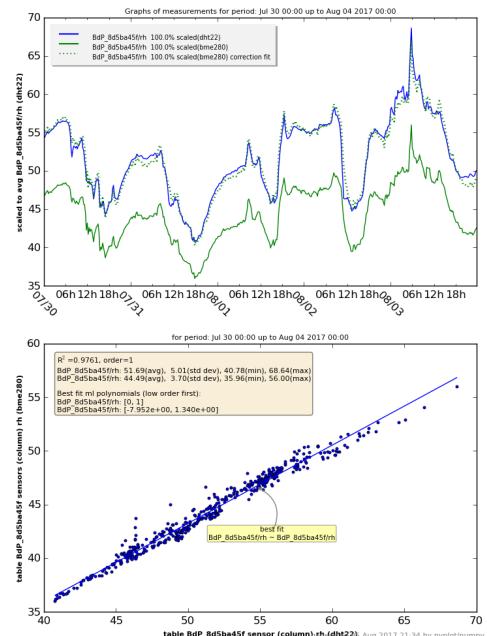
Statistical summary linear regression for BdP_8d5ba45f/rh with [BdP_8d5ba45f/rh]:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/rh	R-squared:	0.976
Model:	OLS	Adj. R-squared:	0.976
Method:	Least Squares	F-statistic:	1.954e+04
Date:	Sat, 05 Aug 2017	Prob (F-statistic):	0.00
Time:	21:34:08	Log-Likelihood:	-558.65
No. Observations:	480	AIC:	1121.
Df Residuals:	478	BIC:	1130.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_8d5ba45f/rh	-7.9521	0.428	-18.572	0.000 -8.793 -7.111

Omnibus:	88.547	Durbin-Watson:	0.236
Prob(Omnibus):	0.000	Jarque-Bera (JB):	275.843
Skew:	-0.850	Prob(JB):	1.26e-60
Kurtosis:	6.302	Cond. No.	540.



Sensor dht22@BdP_8d5ba45f with sensor dht22@BdP_3f18c330

correlation report for rh (raw) measurements

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

Date of correlation report: Sat Aug 5 21:34:10 CEST 2017

From date 2017-07-30 upto 2017-08-04 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: 480 db records, deleted 0 NaN records.

Database table BdP_3f18c330 sensor (column) rh: 480 db records, deleted 0 NaN records.

Collected 480 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 04 2017 00:00, interval timing 15m:0s.

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

number 480, min=30.02, max=53.51

avg=39.29, std dev= 4.22

R-squared (R^2) with BdP_3f18c330/rh: 0.9635

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

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

5.910e+00, 1.165e+00

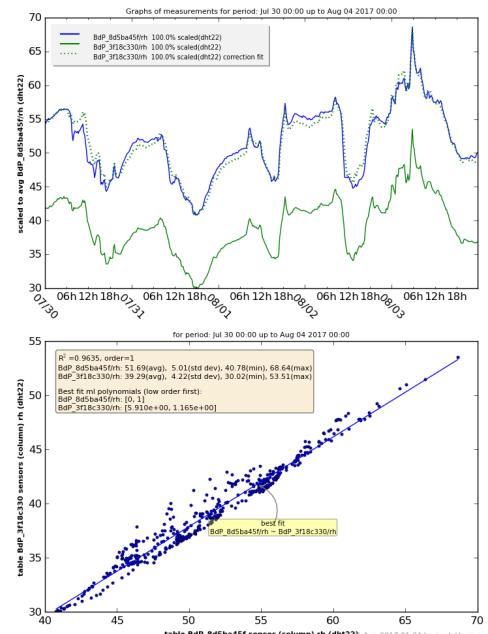
Statistical summary linear regression for BdP_8d5ba45f/rh with [BdP_3f18c330/rh]:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/rh	R-squared:	0.964
Model:	OLS	Adj. R-squared:	0.963
Method:	Least Squares	F-statistic:	1.263e+04
Date:	Sat, 05 Aug 2017	Prob (F-statistic):	0.00
Time:	21:34:10	Log-Likelihood:	-660.25
No. Observations:	480	AIC:	1325.
Df Residuals:	478	BIC:	1333.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_3f18c330/rh	5.9096	0.410	14.423	0.000
	5.104	6.715		

Omnibus:	101.994	Durbin-Watson:	0.096
Prob(Omnibus):	0.000	Jarque-Bera (JB):	177.857
Skew:	-1.247	Prob(JB):	2.39e-39
Kurtosis:	4.634	Cond. No.	370.



Sensor dht22@BdP_8d5ba45f with sensor bme280@BdP_3f18c330

correlation report for rh (raw) measurements

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

Date of correlation report: Sat Aug 5 21:34:12 CEST 2017

From date 2017-07-30 upto 2017-08-04 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: 480 db records, deleted 0 NaN records.

Database table BdP_3f18c330 sensor (column) rh: 480 db records, deleted 0 NaN records.

Collected 480 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 04 2017 00:00, interval timing 15m:0s.

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

number 480, min=29.35, max=49.46

avg=37.10, std dev= 3.56

R-squared (R^2) with BdP_3f18c330/rh: 0.9557

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

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

5.815e-01, 1.378e+00

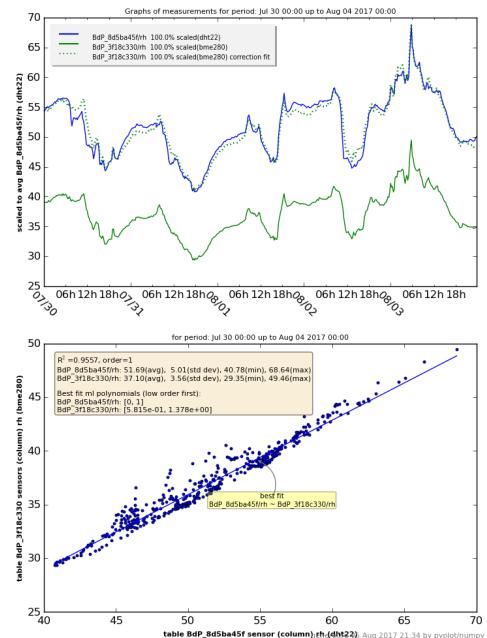
Statistical summary linear regression for BdP_8d5ba45f/rh with [BdP_3f18c330/rh]:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/rh	R-squared:	0.956
Model:	OLS	Adj. R-squared:	0.956
Method:	Least Squares	F-statistic:	1.031e+04
Date:	Sat, 05 Aug 2017	Prob (F-statistic):	0.00
Time:	21:34:13	Log-Likelihood:	-707.03
No. Observations:	480	AIC:	1418.
Df Residuals:	478	BIC:	1426.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_3f18c330/rh	0.5815	0.506	1.150	0.251 -0.412 1.575

Omnibus:	116.894	Durbin-Watson:	0.128
Prob(Omnibus):	0.000	Jarque-Bera (JB):	237.159
Skew:	-1.320	Prob(JB):	3.17e-52
Kurtosis:	5.210	Cond. No.	391.



Sensor bme280@BdP_8d5ba45f with sensor dht22@BdP_3f18c330

correlation report for rh (raw) measurements

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

Date of correlation report: Sat Aug 5 21:34:14 CEST 2017

From date 2017-07-30 upto 2017-08-04 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: 480 db records, deleted 0 NaN records.

Database table BdP_3f18c330 sensor (column) rh: 480 db records, deleted 0 NaN records.

Collected 480 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 04 2017 00:00, interval timing 15m:0s.

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

number 480, min=30.02, max=53.51

avg=39.29, std dev= 4.22

R-squared (R^2) with BdP_3f18c330/rh: 0.9625

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

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

1.077e+01, 8.583e-01

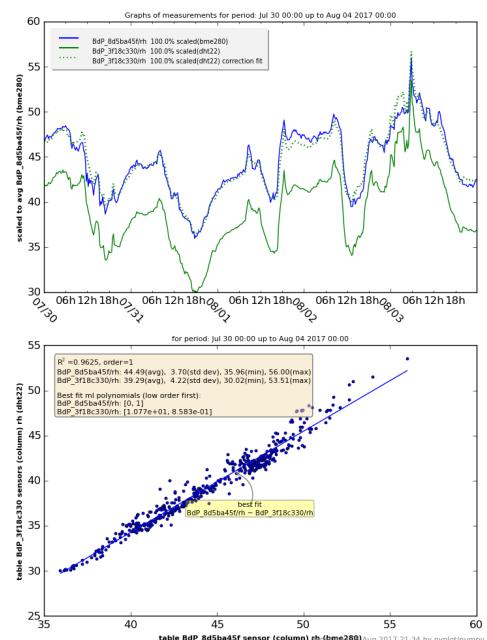
Statistical summary linear regression for BdP_8d5ba45f/rh with [BdP_3f18c330/rh]:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/rh	R-squared:	0.962
Model:	OLS	Adj. R-squared:	0.962
Method:	Least Squares	F-statistic:	1.226e+04
Date:	Sat, 05 Aug 2017	Prob (F-statistic):	0.00
Time:	21:34:15	Log-Likelihood:	-520.53
No. Observations:	480	AIC:	1045.
Df Residuals:	478	BIC:	1053.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]		
BdP_3f18c330/rh	10.7692	0.306	35.164	0.000	10.167	11.371

Omnibus:	25.840	Durbin-Watson:	0.216
Prob(Omnibus):	0.000	Jarque-Bera (JB):	31.705
Skew:	-0.491	Prob(JB):	1.30e-07
Kurtosis:	3.788	Cond. No.	370.



Sensor bme280@BdP_8d5ba45f with sensor bme280@BdP_3f18c330

correlation report for rh (raw) measurements

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

Date of correlation report: Sat Aug 5 21:34:16 CEST 2017

From date 2017-07-30 upto 2017-08-04 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: 480 db records, deleted 0 NaN records.

Database table BdP_3f18c330 sensor (column) rh: 480 db records, deleted 0 NaN records.

Collected 480 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 04 2017 00:00, interval timing 15m:0s.

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

number 480, min=29.35, max=49.46

avg=37.10, std dev= 3.56

R-squared (R^2) with BdP_3f18c330/rh: 0.9604

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

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

6.731e+00, 1.018e+00

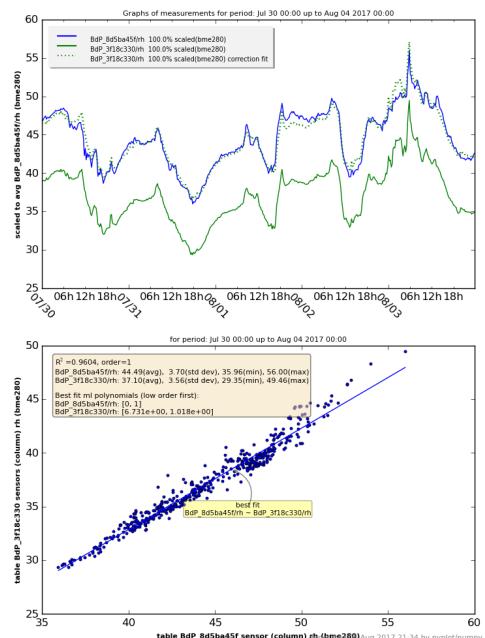
Statistical summary linear regression for BdP_8d5ba45f/rh with [BdP_3f18c330/rh]:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/rh	R-squared:	0.960
Model:	OLS	Adj. R-squared:	0.960
Method:	Least Squares	F-statistic:	1.160e+04
Date:	Sat, 05 Aug 2017	Prob (F-statistic):	0.00
Time:	21:34:17	Log-Likelihood:	-533.38
No. Observations:	480	AIC:	1071.
Df Residuals:	478	BIC:	1079.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]		
BdP_3f18c330/rh	6.7307	0.352	19.110	0.000	6.039	7.423

Omnibus:	22.510	Durbin-Watson:	0.228
Prob(Omnibus):	0.000	Jarque-Bera (JB):	27.052
Skew:	-0.451	Prob(JB):	1.34e-06
Kurtosis:	3.734	Cond. No.	391.



Sensor dht22@BdP_3f18c330 with sensor bme280@BdP_3f18c330

correlation report for rh (raw) measurements

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

Date of correlation report: Sat Aug 5 21:34:18 CEST 2017

From date 2017-07-30 upto 2017-08-04 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: 480 db records, deleted 0 NaN records.

Database table BdP_3f18c330 sensor (column) rh: 480 db records, deleted 0 NaN records.

Collected 480 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 04 2017 00:00, interval timing 15m:0s.

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

number 480, min=29.35, max=49.46

avg=37.10, std dev= 3.56

R-squared (R^2) with BdP_3f18c330/rh: 0.9958

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

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

-4.661e+00, 1.185e+00

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

OLS Regression Results

Dep. Variable:	BdP_3f18c330/rh	R-squared:	0.996
Model:	OLS	Adj. R-squared:	0.996
Method:	Least Squares	F-statistic:	1.144e+05
Date:	Sat, 05 Aug 2017	Prob (F-statistic):	0.00
Time:	21:34:19	Log-Likelihood:	-56.943
No. Observations:	480	AIC:	117.9
Df Residuals:	478	BIC:	126.2
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_3f18c330/rh	-4.6609	0.131	-35.707	0.000 -4.917 -4.404

Omnibus:	58.096	Durbin-Watson:	0.548
Prob(Omnibus):	0.000	Jarque-Bera (JB):	123.285
Skew:	-0.672	Prob(JB):	1.69e-27
Kurtosis:	5.088	Cond. No.	391.

