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Summary of correlations of sensor kits and sensor modules

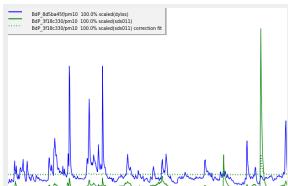
Sensorkits: BdP_8d5ba45f BdP_3f18c330 BdP_33040d54

Report generated on: Sun Aug 6 15:01:05 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**:

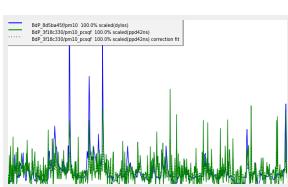


nr samples 731, min= 3.50, max=510.12
avg=13.53, std dev=28.24

R-squared:
0.0101

Best fit polynomial coefficients:
[4.770e+01, 1.257e-01]

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

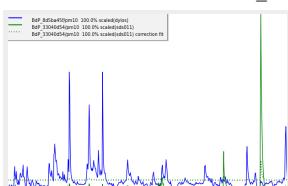


nr samples 704, min= 1.00, max=405.00
avg=51.93, std dev=36.32

R-squared:
0.1592

Best fit polynomial coefficients:
[2.964e+01, 3.938e-01]

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

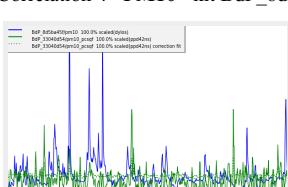


nr samples 731, min= 3.75, max=584.86
avg=15.26, std dev=31.69

R-squared:
0.0092

Best fit polynomial coefficients:
[4.776e+01, 1.074e-01]

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

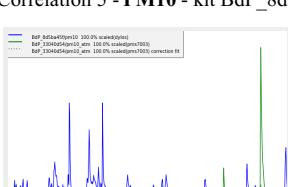


nr samples 721, min= 1.00, max=196.00
avg=38.59, std dev=22.19

R-squared:
0.0220

Best fit polynomial coefficients:
[4.056e+01, 2.373e-01]

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

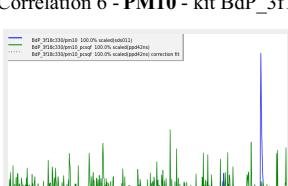


nr samples 731, min= 0.67, max=606.07
avg=18.60, std dev=35.89

R-squared:
0.0020

Best fit polynomial coefficients:
[4.859e+01, 4.390e-02]

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

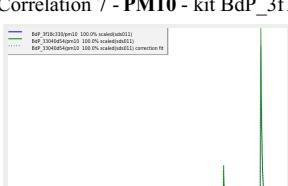


nr samples 704, min= 1.00, max=405.00
avg=51.93, std dev=36.32

R-squared:
0.0051

Best fit polynomial coefficients:
[1.082e+01, 5.628e-02]

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

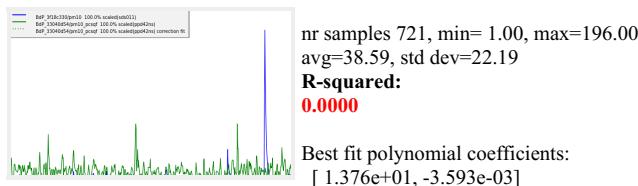


nr samples 731, min= 3.75, max=584.86
avg=15.26, std dev=31.69

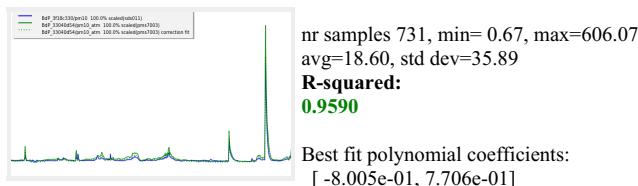
R-squared:
0.9947

Best fit polynomial coefficients:
[-3.066e-02, 8.888e-01]

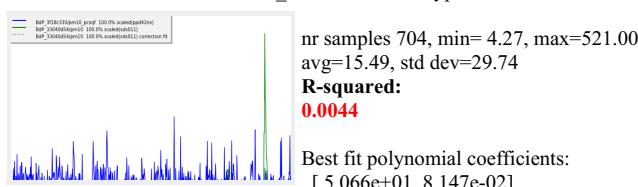
Correlation 8 - **PM10** - kit BdP_3f18c330 sensor type **SDS011** with kit BdP_33040d54 sensor type **PPD42NS**:



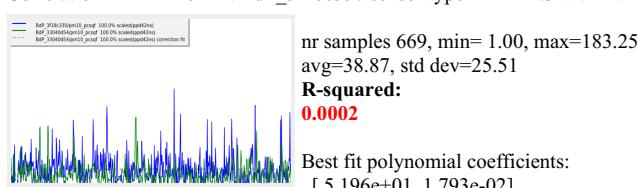
Correlation 9 - **PM10** - kit BdP_3f18c330 sensor type **SDS011** with kit BdP_33040d54 sensor type **PMS7003**:



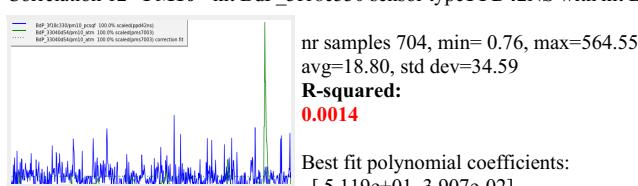
Correlation 10 - **PM10** - kit BdP_3f18c330 sensor type **PPD42NS** with kit BdP_33040d54 sensor type **SDS011**:



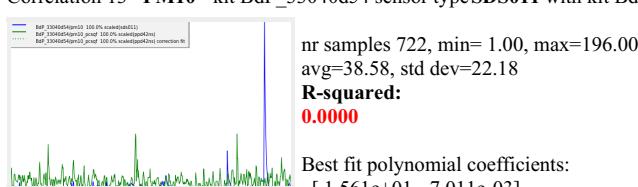
Correlation 11 - **PM10** - kit BdP_3f18c330 sensor type **PPD42NS** with kit BdP_33040d54 sensor type **PPD42NS**:



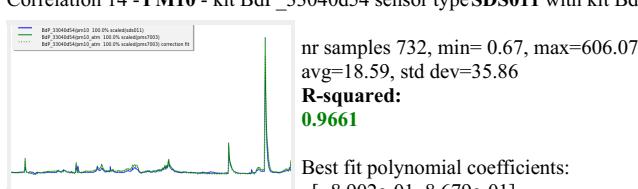
Correlation 12 - **PM10** - kit BdP_3f18c330 sensor type **PPD42NS** with kit BdP_33040d54 sensor type **PMS7003**:



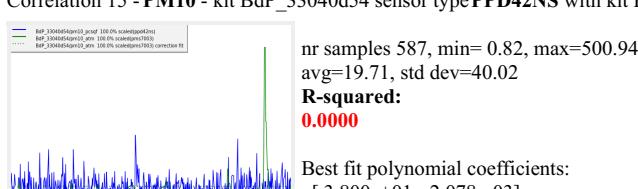
Correlation 13 - **PM10** - kit BdP_33040d54 sensor type **SDS011** with kit BdP_33040d54 sensor type **PPD42NS**:



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

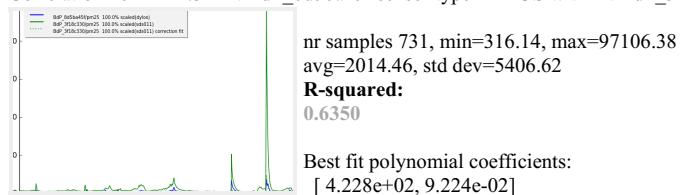


Correlation 15 - **PM10** - kit BdP_33040d54 sensor type **PPD42NS** with kit BdP_33040d54 sensor type **PMS7003**:

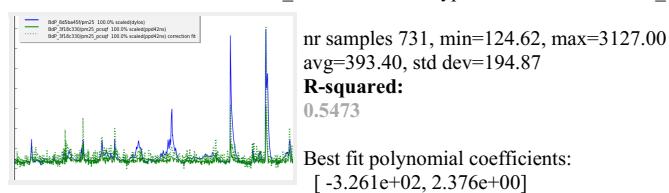


Measurement PM2.5 correlation key values

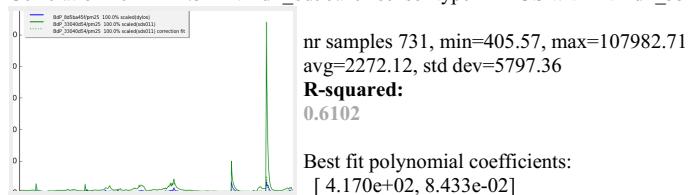
Correlation 16 - PM2.5 - kit BdP_8d5ba45f sensor type **DYLOS** with kit BdP_3f18c330 sensor type **SDS011**:



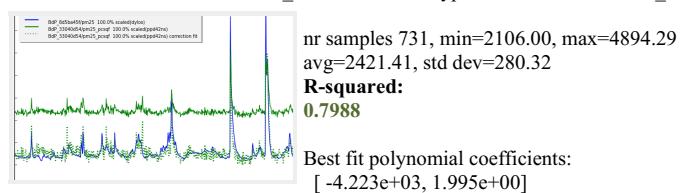
Correlation 17 - PM2.5 - kit BdP_8d5ba45f sensor type **DYLOS** with kit BdP_3f18c330 sensor type **PPD42NS**:



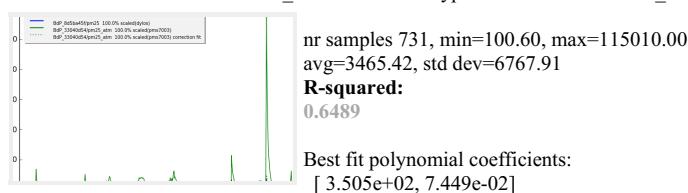
Correlation 18 - PM2.5 - kit BdP_8d5ba45f sensor type **DYLOS** with kit BdP_33040d54 sensor type **SDS011**:



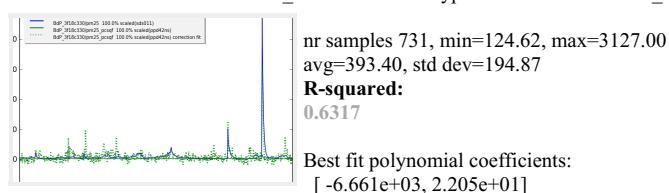
Correlation 19 - PM2.5 - kit BdP_8d5ba45f sensor type **DYLOS** with kit BdP_33040d54 sensor type **PPD42NS**:



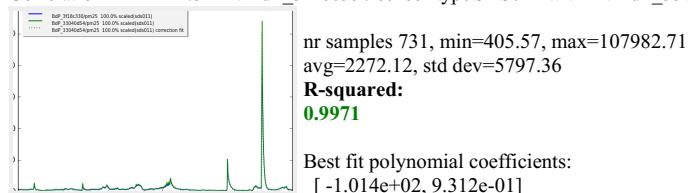
Correlation 20 - PM2.5 - kit BdP_8d5ba45f sensor type **DYLOS** with kit BdP_33040d54 sensor type **PMS7003**:



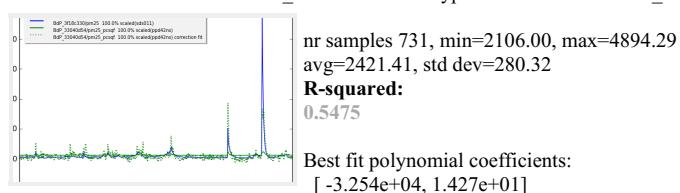
Correlation 21 - PM2.5 - kit BdP_3f18c330 sensor type **SDS011** with kit BdP_3f18c330 sensor type **PPD42NS**:



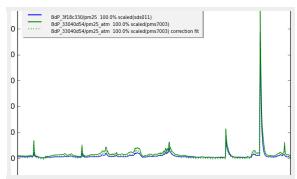
Correlation 22 - PM2.5 - kit BdP_3f18c330 sensor type **SDS011** with kit BdP_33040d54 sensor type **SDS011**:



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



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



nr samples 731, min=100.60, max=115010.00
avg=3465.42, std dev=6767.91

R-squared:

0.9726

Best fit polynomial coefficients:
[-7.158e+02, 7.878e-01]

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



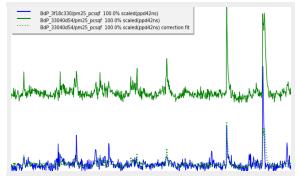
nr samples 732, min=405.57, max=107982.71
avg=2270.60, std dev=5793.55

R-squared:

0.6206

Best fit polynomial coefficients:
[3.327e+02, 2.653e-02]

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



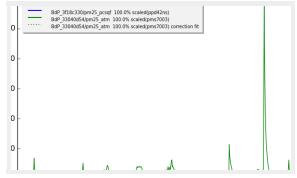
nr samples 732, min=2106.00, max=4894.29
avg=2421.13, std dev=280.23

R-squared:

0.4462

Best fit polynomial coefficients:
[-7.331e+02, 4.651e-01]

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



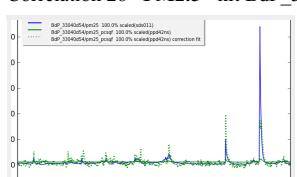
nr samples 732, min=100.60, max=115010.00
avg=3464.11, std dev=6763.38

R-squared:

0.5966

Best fit polynomial coefficients:
[3.158e+02, 2.228e-02]

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



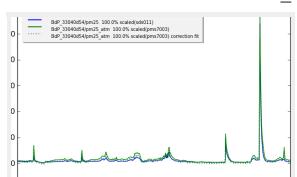
nr samples 732, min=2106.00, max=4894.29
avg=2421.13, std dev=280.23

R-squared:

0.5238

Best fit polynomial coefficients:
[-3.396e+04, 1.496e+01]

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



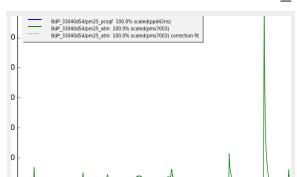
nr samples 732, min=100.60, max=115010.00
avg=3464.11, std dev=6763.38

R-squared:

0.9748

Best fit polynomial coefficients:
[-6.591e+02, 8.457e-01]

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



nr samples 732, min=100.60, max=115010.00
avg=3464.11, std dev=6763.38

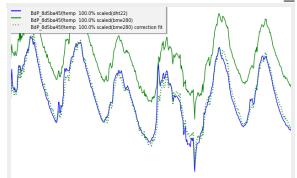
R-squared:

0.5807

Best fit polynomial coefficients:
[2.312e+03, 3.157e-02]

Measurement TEMP correlation key values

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



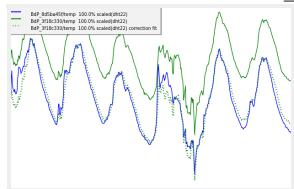
nr samples 624, min=26.29, max=31.92
avg=29.25, std dev= 1.18

R-squared:

0.9589

Best fit polynomial coefficients:
[-5.053e+00, 1.110e+00]

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



nr samples 624, min=25.65, max=31.98

avg=29.34, std dev= 1.21

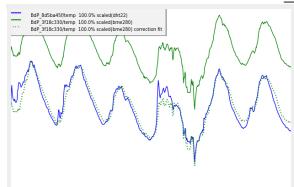
R-squared:

0.9316

Best fit polynomial coefficients:

[-3.704e+00, 1.061e+00]

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



nr samples 624, min=27.14, max=33.73

avg=30.95, std dev= 1.25

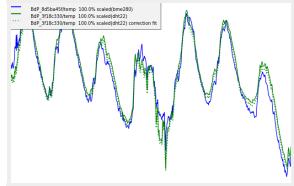
R-squared:

0.9102

Best fit polynomial coefficients:

[-3.985e+00, 1.015e+00]

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



nr samples 731, min=25.65, max=31.98

avg=29.13, std dev= 1.32

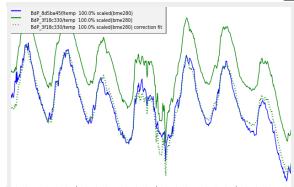
R-squared:

0.9472

Best fit polynomial coefficients:

[1.858e-01, 9.889e-01]

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



nr samples 731, min=27.14, max=33.73

avg=30.72, std dev= 1.37

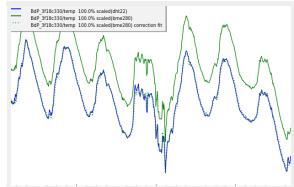
R-squared:

0.9403

Best fit polynomial coefficients:

[-1.662e-01, 9.490e-01]

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



nr samples 732, min=27.14, max=33.73

avg=30.72, std dev= 1.37

R-squared:

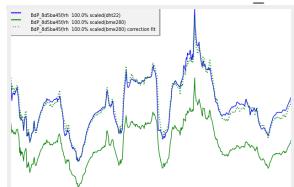
0.9953

Best fit polynomial coefficients:

[-3.949e-01, 9.609e-01]

Measurement RH correlation key values

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



nr samples 624, min=35.96, max=56.00

avg=44.11, std dev= 3.39

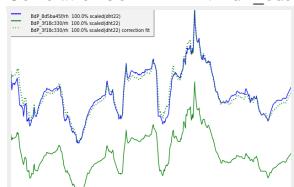
R-squared:

0.9716

Best fit polynomial coefficients:

[-7.125e+00, 1.325e+00]

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



nr samples 624, min=30.02, max=53.51

avg=38.78, std dev= 3.89

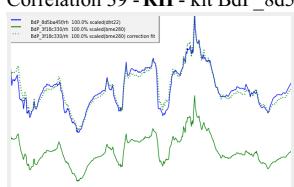
R-squared:

0.9560

Best fit polynomial coefficients:

[6.828e+00, 1.147e+00]

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



nr samples 624, min=29.35, max=49.46

avg=36.65, std dev= 3.28

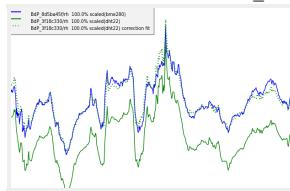
R-squared:

0.9461

Best fit polynomial coefficients:

[1.731e+00, 1.352e+00]

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



nr samples 731, min=30.02, max=53.51

avg=38.84, std dev= 3.65

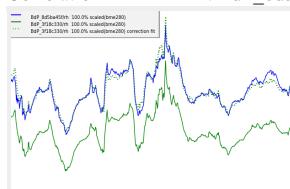
R-squared:

0.9529

Best fit polynomial coefficients:

[1.062e+01, 8.660e-01]

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



nr samples 731, min=29.35, max=49.46

avg=36.72, std dev= 3.08

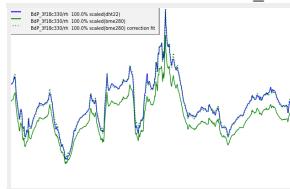
R-squared:

0.9471

Best fit polynomial coefficients:

[6.677e+00, 1.024e+00]

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



nr samples 732, min=29.35, max=49.46

avg=36.71, std dev= 3.08

R-squared:

0.9941

Best fit polynomial coefficients:

[-4.569e+00, 1.182e+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: Sun Aug 6 15:00:58 CEST 2017

From date 2017-07-30 upto 2017-08-06 15:00

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: 731 db records, deleted 0 NaN records.

Database table BdP_3f18c330 sensor (column) pm10: 731 db records, deleted 0 NaN records.

Collected 731 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 06 2017 15:01, interval timing 15m:0s.

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

number 731, min= 3.50, max=510.12

avg=13.53, std dev=28.24

R-squared (R^2) with BdP_3f18c330/pm10: 0.0101

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

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

4.770e+01, 1.257e-01

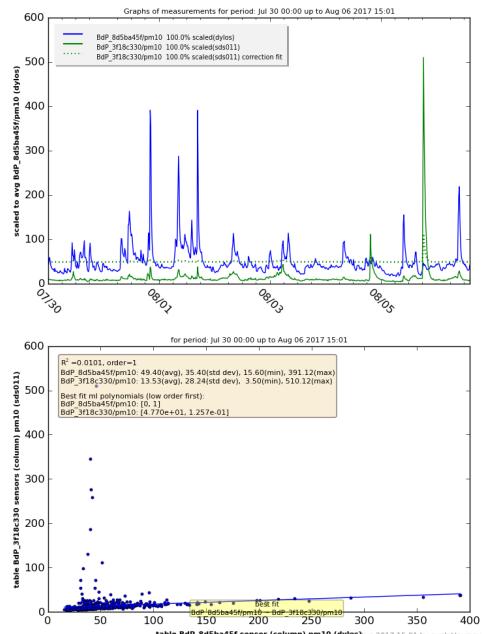
Statistical summary linear regression for BdP_8d5ba45f/pm10 with ['BdP_3f18c330/pm10']:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/pm10	R-squared:	0.010
Model:	OLS	Adj. R-squared:	0.009
Method:	Least Squares	F-statistic:	7.410
Date:	Sun, 06 Aug 2017	Prob (F-statistic):	0.00664
Time:	15:01:02	Log-Likelihood:	-3640.8
No. Observations:	731	AIC:	7286.
Df Residuals:	729	BIC:	7295.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_3f18c330/pm10	47.7012	1.447	32.975	0.000 44.861 50.541

Omnibus:	769.334	Durbin-Watson:	0.434
Prob(Omnibus):	0.000	Jarque-Bera (JB):	42259.611
Skew:	4.939	Prob(JB):	0.00
Kurtosis:	38.915	Cond. No.	34.7



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: Sun Aug 6 15:01:05 CEST 2017

From date 2017-07-30 upto 2017-08-06 15:01

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: 731 db records, deleted 0 NaN records.

Auto interval samples is (re)set to 1305 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) pm10_pcsqf: 704 db records, deleted 0 NaN records.

Collected 704 values in sample time frame (21m/45s) for the graph. Skipped 27 db records, could not find any value(s) in same sample interval.

Samples period: Jul 30 00:00 up to Aug 06 2017 15:01, interval timing 21m:45s.

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

number 704, min= 1.00, max=405.00

avg=51.93, std dev=36.32

R-squared (R^2) with BdP_3f18c330/pm10_pcsqf: 0.1592

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

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

2.964e+01, 3.938e-01

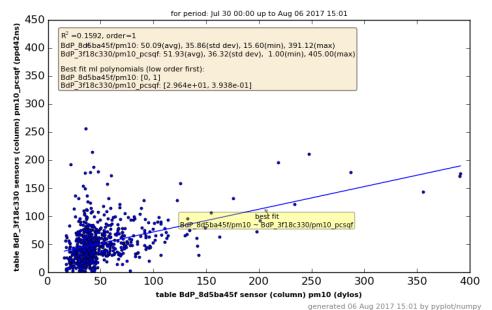
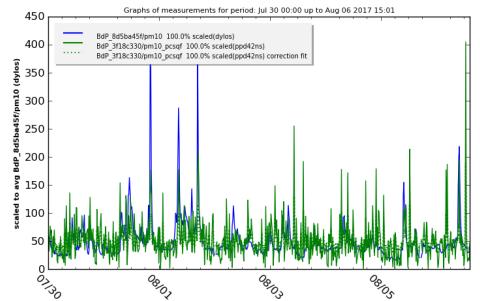
Statistical summary linear regression for BdP_8d5ba45f/pm10 with ['BdP_3f18c330/pm10_pcsqf']:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/pm10	R-squared:	0.159
Model:	OLS	Adj. R-squared:	0.158
Method:	Least Squares	F-statistic:	132.9
Date:	Sun, 06 Aug 2017	Prob (F-statistic):	2.79e-28
Time:	15:01:06	Log-Likelihood:	-3457.9
No. Observations:	704	AIC:	6920.
Df Residuals:	702	BIC:	6929.
Df Model:	1		

	coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_3f18c330/pm10_pcsqf	29.6426	2.165	13.692	0.000	25.392 33.893

Omnibus:	611.647	Durbin-Watson:	0.686
Prob(Omnibus):	0.000	Jarque-Bera (JB):	2330.361
Skew:	3.696	Prob(JB):	0.00
Kurtosis:	30.216	Cond. No.	111.



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: Sun Aug 6 15:01:08 CEST 2017

From date 2017-07-30 upto 2017-08-06 15:01

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: 731 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm10: 732 db records, deleted 0 NaN records.

Collected 731 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 06 2017 15:01, interval timing 15m:0s.

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

number 731, min= 3.75, max=584.86

avg=15.26, std dev=31.69

R-squared (R^2) with BdP_33040d54/pm10: 0.0092

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

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

4.776e+01, 1.074e-01

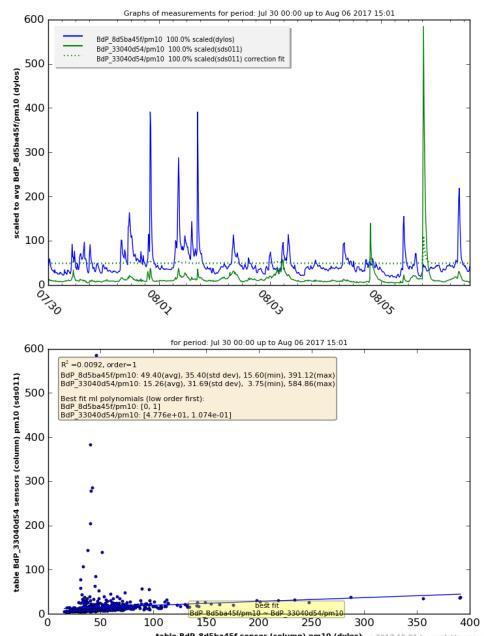
Statistical summary linear regression for BdP_8d5ba45f/pm10 with [BdP_33040d54/pm10]:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/pm10	R-squared:	0.009
Model:	OLS	Adj. R-squared:	0.008
Method:	Least Squares	F-statistic:	6.803
Date:	Sun, 06 Aug 2017	Prob (F-statistic):	0.00929
Time:	15:01:08	Log-Likelihood:	-3641.1
No. Observations:	731	AIC:	7286.
Df Residuals:	729	BIC:	7295.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm10	47.7636	1.449	32.974	0.000 44.920 50.607

Omnibus:	771.263	Durbin-Watson:	0.435
Prob(Omnibus):	0.000	Jarque-Bera (JB):	42702.524
Skew:	4.957	Prob(JB):	0.00
Kurtosis:	39.107	Cond. No.	39.0



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: Sun Aug 6 15:01:10 CEST 2017

From date 2017-07-30 upto 2017-08-06 15:01

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: 731 db records, deleted 0 NaN records.

Auto interval samples is (re)set to 2085 (avg+2*stddev)

Database table BdP_33040d54 sensor (column) pm10_pcsqf: 587 db records, deleted 0 NaN records.

Collected 721 values in sample time frame (34m/45s) for the graph. Skipped 10 db records, could not find any value(s) in same sample interval.

Samples period: Jul 30 00:00 up to Aug 06 2017 15:01, interval timing 34m:45s.

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

number 721, min= 1.00, max=196.00

avg=38.59, std dev=22.19

R-squared (R^2) with BdP_33040d54/pm10_pcsqf: 0.0220

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

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

4.056e+01, 2.373e-01

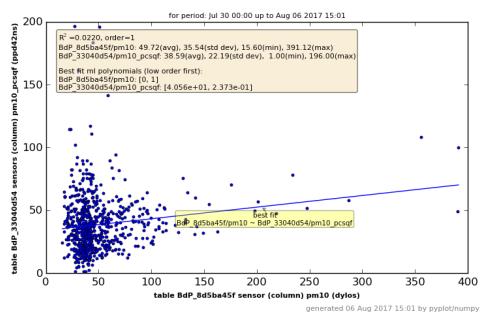
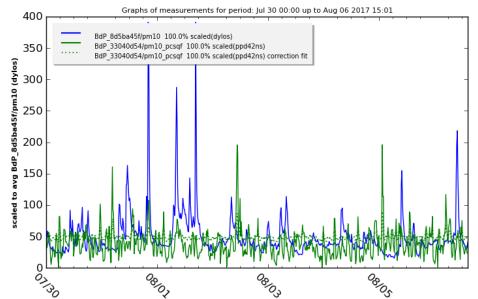
Statistical summary linear regression for BdP_8d5ba45f/pm10 with ['BdP_33040d54/pm10_pcsqf']:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/pm10	R-squared:	0.022
Model:	OLS	Adj. R-squared:	0.021
Method:	Least Squares	F-statistic:	16.14
Date:	Sun, 06 Aug 2017	Prob (F-statistic):	6.51e-05
Time:	15:01:10	Log-Likelihood:	-3589.4
No. Observations:	721	AIC:	7183.
Df Residuals:	719	BIC:	7192.
Df Model:	1		

	coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm10_pcsqf	40.5632	2.630	15.426	0.000	35.401 45.726

Omnibus:	734.016	Durbin-Watson:	0.454
Prob(Omnibus):	0.000	Jarque-Bera (JB):	36242.750
Skew:	4.704	Prob(JB):	0.00
Kurtosis:	36.435	Cond. No.	89.4



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: Sun Aug 6 15:01:12 CEST 2017

From date 2017-07-30 upto 2017-08-06 15:01

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: 731 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm10_atm: 732 db records, deleted 0 NaN records.

Collected 731 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 06 2017 15:01, interval timing 15m:0s.

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

number 731, min= 0.67, max=606.07

avg=18.60, std dev=35.89

R-squared (R^2) with BdP_33040d54/pm10_atm: 0.0020

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

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

4.859e+01, 4.390e-02

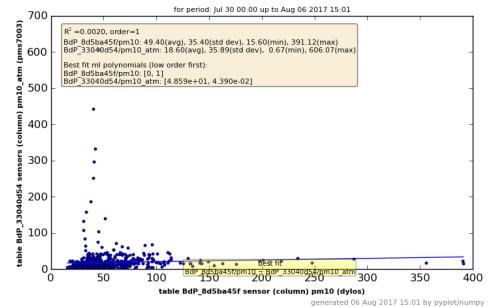
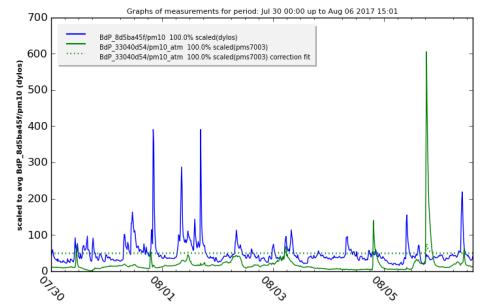
Statistical summary linear regression for BdP_8d5ba45f/pm10 with [BdP_33040d54/pm10_atm]:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/pm10	R-squared:	0.002
Model:	OLS	Adj. R-squared:	0.001
Method:	Least Squares	F-statistic:	1.447
Date:	Sun, 06 Aug 2017	Prob (F-statistic):	0.229
Time:	15:01:12	Log-Likelihood:	-3643.8
No. Observations:	731	AIC:	7292.
Df Residuals:	729	BIC:	7301.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]		
BdP_33040d54/pm10_atm	48.5863	1.475	32.932	0.000	45.690	51.483

Omnibus:	777.263	Durbin-Watson:	0.438
Prob(Omnibus):	0.000	Jarque-Bera (JB):	43853.422
Skew:	5.016	Prob(JB):	0.00
Kurtosis:	39.594	Cond. No.	45.5



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: Sun Aug 6 15:01:14 CEST 2017

From date 2017-07-30 upto 2017-08-06 15:01

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: 731 db records, deleted 0 NaN records.

Auto interval samples is (re)set to 1305 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) pm10_pcsqf: 704 db records, deleted 0 NaN records.

Collected 704 values in sample time frame (21m/45s) for the graph. Skipped 27 db records, could not find any value(s) in same sample interval.

Samples period: Jul 30 00:00 up to Aug 06 2017 15:01, interval timing 21m:45s.

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

number 704, min= 1.00, max=405.00

avg=51.93, std dev=36.32

R-squared (R^2) with BdP_3f18c330/pm10_pcsqf: 0.0051

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

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

1.082e+01, 5.628e-02

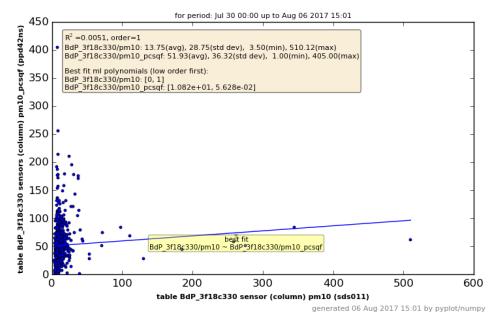
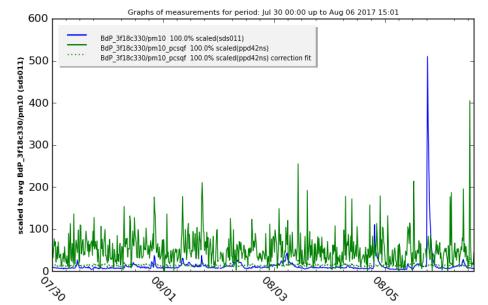
Statistical summary linear regression for BdP_3f18c330/pm10 with ['BdP_3f18c330/pm10_pcsqf']:

OLS Regression Results

Dep. Variable:	BdP_3f18c330/pm10	R-squared:	0.005
Model:	OLS	Adj. R-squared:	0.004
Method:	Least Squares	F-statistic:	3.567
Date:	Sun, 06 Aug 2017	Prob (F-statistic):	0.0594
Time:	15:01:15	Log-Likelihood:	-3361.7
No. Observations:	704	AIC:	6727.
Df Residuals:	702	BIC:	6737.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_3f18c330/pm10_pcsqf	10.82471.888	5.732	0.000	7.117 14.532

Omnibus:	1266.695	Durbin-Watson:	0.327
Prob(Omnibus):	0.000	Jarque-Bera (JB):	847751.101
Skew:	11.958	Prob(JB):	0.00
Kurtosis:	171.311	Cond. No.	111.



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: Sun Aug 6 15:01:16 CEST 2017

From date 2017-07-30 upto 2017-08-06 15:01

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: 731 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm10: 732 db records, deleted 0 NaN records.

Collected 731 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 06 2017 15:01, interval timing 15m:0s.

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

number 731, min= 3.75, max=584.86

avg=15.26, std dev=31.69

R-squared (R^2) with BdP_33040d54/pm10: 0.9947

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

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

-3.066e-02, 8.888e-01

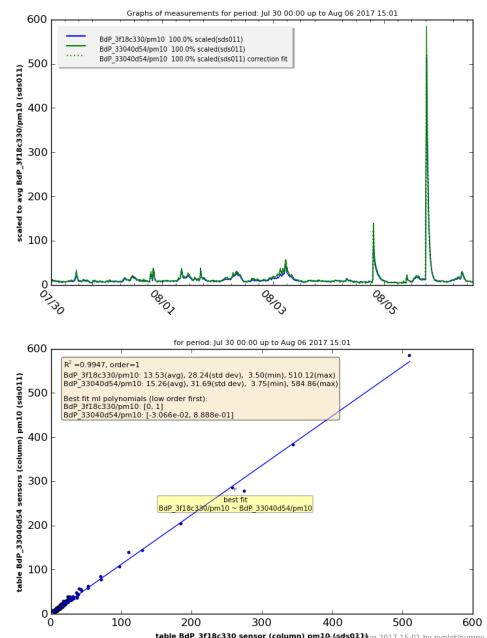
Statistical summary linear regression for BdP_3f18c330/pm10 with [BdP_33040d54/pm10]:

OLS Regression Results

Dep. Variable:	BdP_3f18c330/pm10	R-squared:	0.995
Model:	OLS	Adj. R-squared:	0.995
Method:	Least Squares	F-statistic:	1.373e+05
Date:	Sun, 06 Aug 2017	Prob (F-statistic):	0.00
Time:	15:01:17	Log-Likelihood:	-1562.8
No. Observations:	731	AIC:	3130.
Df Residuals:	729	BIC:	3139.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm10	-0.0307	0.084	-0.363	0.716 -0.196
				0.135

Omnibus:	547.248	Durbin-Watson:	1.504
Prob(Omnibus):	0.000	Jarque-Bera (JB):	82861.169
Skew:	2.447	Prob(JB):	0.00
Kurtosis:	54.928	Cond. No.	39.0



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: Sun Aug 6 15:01:18 CEST 2017

From date 2017-07-30 upto 2017-08-06 15:01

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: 731 db records, deleted 0 NaN records.

Auto interval samples is (re)set to 2085 (avg+2*stddev)

Database table BdP_33040d54 sensor (column) pm10_pcsqf: 587 db records, deleted 0 NaN records.

Collected 721 values in sample time frame (34m/45s) for the graph. Skipped 10 db records, could not find any value(s) in same sample interval.

Samples period: Jul 30 00:00 up to Aug 06 2017 15:01, interval timing 34m:45s.

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

number 721, min= 1.00, max=196.00

avg=38.59, std dev=22.19

R-squared (R^2) with BdP_33040d54/pm10_pcsqf: 0.0000

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

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

1.376e+01, -3.593e-03

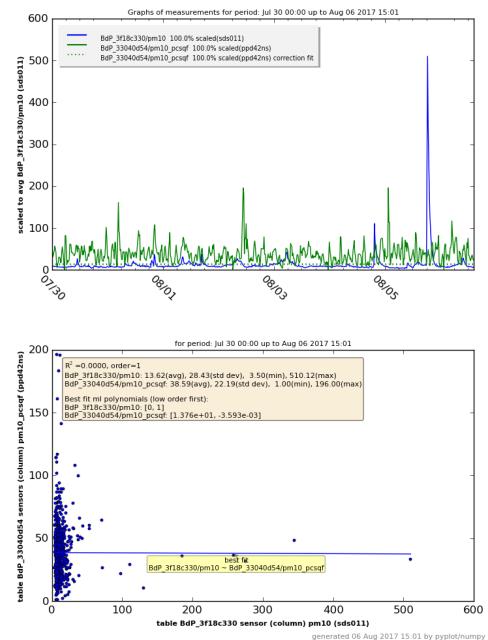
Statistical summary linear regression for BdP_3f18c330/pm10 with ['BdP_33040d54/pm10_pcsqf']:

OLS Regression Results

Dep. Variable:	BdP_3f18c330/pm10	R-squared:	0.000
Model:	OLS	Adj. R-squared:	-0.001
Method:	Least Squares	F-statistic:	0.005657
Date:	Sun, 06 Aug 2017	Prob (F-statistic):	0.940
Time:	15:01:19	Log-Likelihood:	-3436.4
No. Observations:	721	AIC:	6877.
Df Residuals:	719	BIC:	6886.
Df Model:	1		

	coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm10_pcsqf	13.7562	2.127	6.468	0.000	9.581 17.932

Omnibus:	1301.918	Durbin-Watson:	0.321
Prob(Omnibus):	0.000	Jarque-Bera (JB):	902808.017
Skew:	12.070	Prob(JB):	0.00
Kurtosis:	174.666	Cond. No.	89.4



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: Sun Aug 6 15:01:20 CEST 2017

From date 2017-07-30 upto 2017-08-06 15:01

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: 731 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm10_atm: 732 db records, deleted 0 NaN records.

Collected 731 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 06 2017 15:01, interval timing 15m:0s.

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

number 731, min= 0.67, max=606.07

avg=18.60, std dev=35.89

R-squared (R^2) with BdP_33040d54/pm10_atm: 0.9590

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

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

-8.005e-01, 7.706e-01

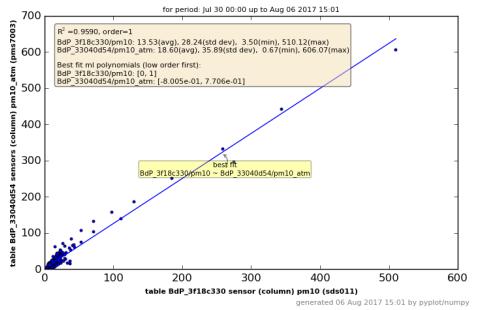
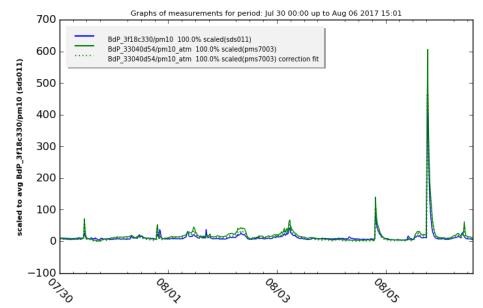
Statistical summary linear regression for BdP_3f18c330/pm10 with [BdP_33040d54/pm10_atm]:

OLS Regression Results

Dep. Variable:	BdP_3f18c330/pm10	R-squared:	0.959
Model:	OLS	Adj. R-squared:	0.959
Method:	Least Squares	F-statistic:	1.703e+04
Date:	Sun, 06 Aug 2017	Prob (F-statistic):	0.00
Time:	15:01:21	Log-Likelihood:	-2312.2
No. Observations:	731	AIC:	4628.
Df Residuals:	729	BIC:	4638.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm10_atm	-0.8005	0.239	-3.354	0.001
				-1.269 -0.332

Omnibus:	210.221	Durbin-Watson:	0.433
Prob(Omnibus):	0.000	Jarque-Bera (JB):	7041.107
Skew:	0.587	Prob(JB):	0.00
Kurtosis:	18.159	Cond. No.	45.5



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: Sun Aug 6 15:01:22 CEST 2017

From date 2017-07-30 upto 2017-08-06 15:01

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 1305 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) pm10_pcsqf: 704 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm10: 505 db records, deleted 0 NaN records.

Collected 704 values in sample time frame (21m/45s) for the graph.

Samples period: Jul 30 00:00 up to Aug 06 2017 15:01, interval timing 21m:45s.

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

number 704, min= 4.27, max=521.00

avg=15.49, std dev=29.74

R-squared (R^2) with BdP_33040d54/pm10: 0.0044

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

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

5.066e+01, 8.147e-02

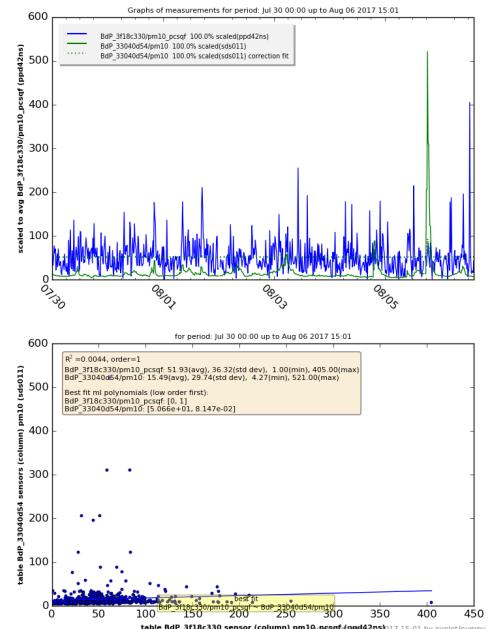
Statistical summary linear regression for BdP_3f18c330/pm10_pcsqf with ['BdP_33040d54/pm10']:

OLS Regression Results

Dep. Variable:	BdP_3f18c330/pm10_pcsqf	R-squared:	0.004
Model:	OLS	Adj. R-squared:	0.003
Method:	Least Squares	F-statistic:	3.137
Date:	Sun, 06 Aug 2017	Prob (F-statistic):	0.0770
Time:	15:01:23	Log-Likelihood:	-3526.5
No. Observations:	704	AIC:	7057.
Df Residuals:	702	BIC:	7066.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm10	50.6645	1.542	32.848	0.000 47.636 53.693

Omnibus:	470.376	Durbin-Watson:	1.629
Prob(Omnibus):	0.000	Jarque-Bera (JB):	8339.637
Skew:	2.725	Prob(JB):	0.00
Kurtosis:	18.956	Cond. No.	37.8



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: Sun Aug 6 15:01:24 CEST 2017

From date 2017-07-30 upto 2017-08-06 15:01

Origin of measurement time serie data from InFluxDB host: localhost

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

General statistical information for the measurements graphs

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

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

Auto interval samples is (re)set to 1305 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) pm10_pcsqf: 704 db records, deleted 0 NaN records.

Auto interval samples is (re)set to 2044 (minimal- 50% -maximal)

Database table BdP_33040d54 sensor (column) pm10_pcsqf: 458 db records, deleted 0 NaN records.

Collected 669 values in sample time frame (34m/4s) for the graph. Skipped 35 db records, could not find any value(s) in same sample interval.

Samples period: Jul 30 00:00 up to Aug 06 2017 15:01, interval timing 34m:4s.

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

number 669, min= 1.00, max=183.25

avg=38.87, std dev=25.51

R-squared (R^2) with BdP_33040d54/pm10_pcsqf: 0.0002

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

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

5.196e+01, 1.793e-02

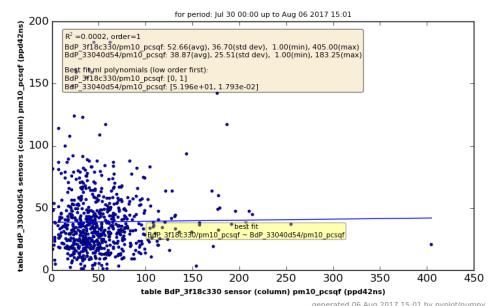
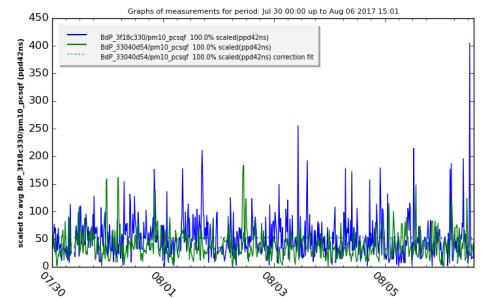
Statistical summary linear regression for BdP_3f18c330/pm10_pcsqf with ['BdP_33040d54/pm10_pcsqf']:

OLS Regression Results

Dep. Variable:	BdP_3f18c330/pm10_pcsqf	R-squared:	0.000
Model:	OLS	Adj. R-squared:	-0.001
Method:	Least Squares	F-statistic:	0.1036
Date:	Sun, 06 Aug 2017	Prob (F-	0.748
Time:	15:01:25	statistic):	
No. Observations:	669	Log-Likelihood:	-3359.4
Df Residuals:	667	AIC:	6723.
Df Model:	1	BIC:	6732.

	coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm10_pcsqf	51.9603	2.589	20.067	0.000	46.876 57.045

Omnibus:	444.076	Durbin-Watson:	1.616
Prob(Omnibus):	0.000	Jarque-Bera (JB):	7646.384
Skew:	2.698	Prob(JB):	0.00
Kurtosis:	18.659	Cond. No.	84.8



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: Sun Aug 6 15:01:26 CEST 2017

From date 2017-07-30 upto 2017-08-06 15:01

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 1305 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) pm10_pcsqf: 704 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm10_atm: 505 db records, deleted 0 NaN records.

Collected 704 values in sample time frame (21m/45s) for the graph.

Samples period: Jul 30 00:00 up to Aug 06 2017 15:01, interval timing 21m:45s.

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

number 704, min= 0.76, max=564.55

avg=18.80, std dev=34.59

R-squared (R^2) with BdP_33040d54/pm10_atm: 0.0014

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

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

5.119e+01, 3.907e-02

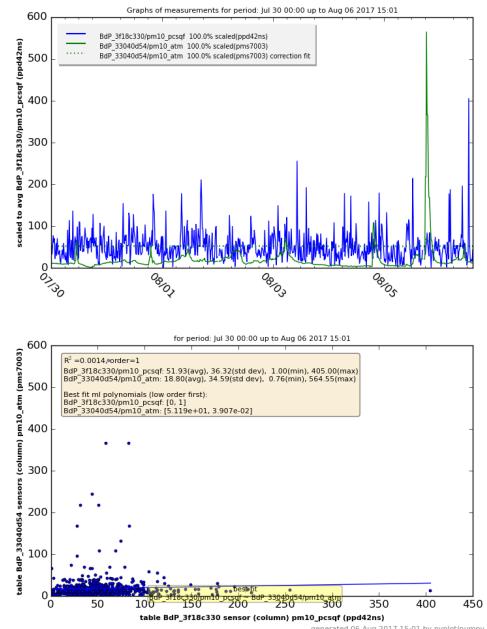
Statistical summary linear regression for BdP_3f18c330/pm10_pcsqf with ['BdP_33040d54/pm10_atm']:

OLS Regression Results

Dep. Variable:	BdP_3f18c330/pm10_pcsqf	R-squared:	0.001
Model:	OLS	Adj. R-squared:	-0.000
Method:	Least Squares	F-statistic:	0.9729
Date:	Sun, 06 Aug 2017	Prob (F-statistic):	0.324
Time:	15:01:27	Log-Likelihood:	-3527.6
No. Observations:	704	AIC:	7059.
Df Residuals:	702	BIC:	7068.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm10_atm	51.1920	1.559	32.829	0.000 48.131 54.254

Omnibus:	468.644	Durbin-Watson:	1.623
Prob(Omnibus):	0.000	Jarque-Bera (JB):	8207.022
Skew:	2.715	Prob(JB):	0.00
Kurtosis:	18.821	Cond. No.	44.8



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: Sun Aug 6 15:01:28 CEST 2017

From date 2017-07-30 upto 2017-08-06 15:01

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: 732 db records, deleted 0 NaN records.

Auto interval samples is (re)set to 2085 (avg+2*stddev)

Database table BdP_33040d54 sensor (column) pm10_pcsqf: 587 db records, deleted 0 NaN records.

Collected 722 values in sample time frame (34m/45s) for the graph. Skipped 10 db records, could not find any value(s) in same sample interval.

Samples period: Jul 30 00:00 up to Aug 06 2017 15:01, interval timing 34m:45s.

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

number 722, min= 1.00, max=196.00

avg=38.58, std dev=22.18

R-squared (R^2) with BdP_33040d54/pm10_pcsqf: 0.0000

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

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

1.561e+01, -7.011e-03

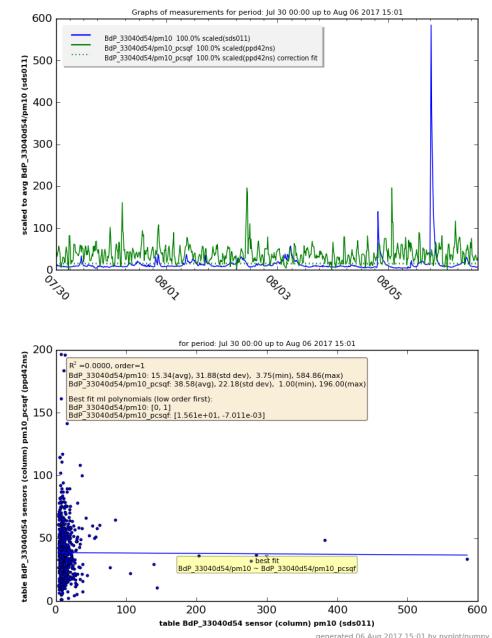
Statistical summary linear regression for BdP_33040d54/pm10 with [BdP_33040d54/pm10_pcsqf]:

OLS Regression Results

Dep. Variable:	BdP_33040d54/pm10	R-squared:	0.000
Model:	OLS	Adj. R-squared:	-0.001
Method:	Least Squares	F-statistic:	0.01713
Date:	Sun, 06 Aug 2017	Prob (F-statistic):	0.896
Time:	15:01:29	Log-Likelihood:	-3524.0
No. Observations:	722	AIC:	7052.
Df Residuals:	720	BIC:	7061.
Df Model:	1		

	coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm10_pcsqf	15.6062	2.384	6.546	0.000	10.926 20.286

Omnibus:	1309.773	Durbin-Watson:	0.347
Prob(Omnibus):	0.000	Jarque-Bera (JB):	975253.495
Skew:	12.155	Prob(JB):	0.00
Kurtosis:	181.402	Cond. No.	89.3



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: Sun Aug 6 15:01:30 CEST 2017

From date 2017-07-30 upto 2017-08-06 15:01

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: 732 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm10_atm: 732 db records, deleted 0 NaN records.

Collected 732 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 06 2017 15:01, interval timing 15m:0s.

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

number 732, min= 0.67, max=606.07

avg=18.59, std dev=35.86

R-squared (R^2) with BdP_33040d54/pm10_atm: 0.9661

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

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

-8.902e-01, 8.679e-01

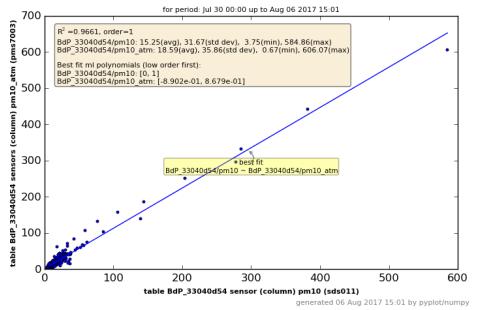
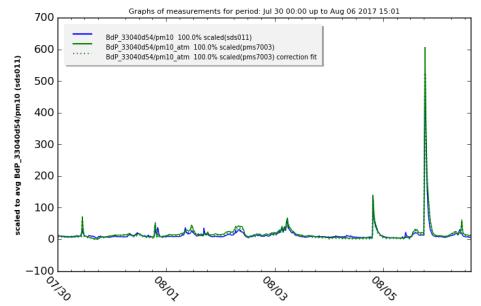
Statistical summary linear regression for BdP_33040d54/pm10 with [BdP_33040d54/pm10_atm]:

OLS Regression Results

Dep. Variable:	BdP_33040d54/pm10	R-squared:	0.966
Model:	OLS	Adj. R-squared:	0.966
Method:	Least Squares	F-statistic:	2.080e+04
Date:	Sun, 06 Aug 2017	Prob (F-statistic):	0.00
Time:	15:01:31	Log-Likelihood:	-2329.5
No. Observations:	732	AIC:	4663.
Df Residuals:	730	BIC:	4672.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm10_atm	-0.8902	0.243	-3.661	0.000 -1.368 -0.413

Omnibus:	210.168	Durbin-Watson:	0.528
Prob(Omnibus):	0.000	Jarque-Bera (JB):	15372.287
Skew:	0.203	Prob(JB):	0.00
Kurtosis:	25.446	Cond. No.	45.5



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: Sun Aug 6 15:01:32 CEST 2017

From date 2017-07-30 upto 2017-08-06 15:01

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 2085 (avg+2*stddev)

Database table BdP_33040d54 sensor (column) pm10_pcsqf: 587 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm10_atm: 317 db records, deleted 0 NaN records.

Collected 587 values in sample time frame (34m/45s) for the graph.

Samples period: Jul 30 00:00 up to Aug 06 2017 15:01, interval timing 34m:45s.

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

number 587, min= 0.82, max=500.94

avg=19.71, std dev=40.02

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

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

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

3.800e+01, -2.078e-03

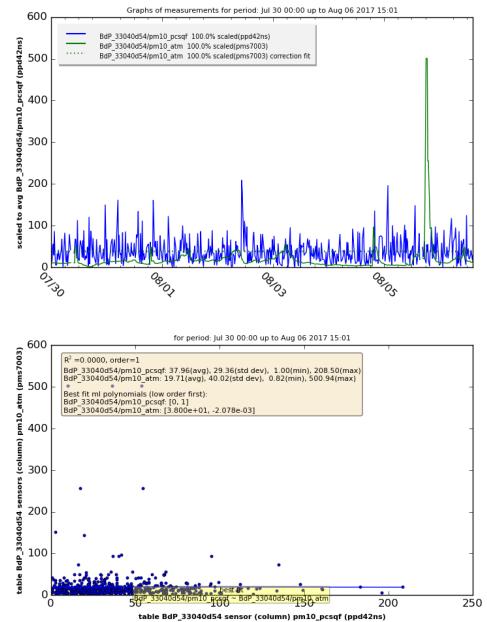
Statistical summary linear regression for BdP_33040d54/pm10_pcsqf with ['BdP_33040d54/pm10_atm']:

OLS Regression Results

Dep. Variable:	BdP_33040d54/pm10_pcsqf	R-squared:	0.000
Model:	OLS	Adj. R-squared:	-0.002
Method:	Least Squares	F-statistic:	0.004691
Date:	Sun, 06 Aug 2017	Prob (F-statistic):	0.945
Time:	15:01:33	Log-Likelihood:	-2816.8
No. Observations:	587	AIC:	5638.
Df Residuals:	585	BIC:	5646.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm10_atm	38.0025	1.353	28.082	0.000 35.345 40.660

Omnibus:	230.970	Durbin-Watson:	1.900
Prob(Omnibus):	0.000	Jarque-Bera (JB):	961.577
Skew:	1.778	Prob(JB):	1.57e-209
Kurtosis:	8.164	Cond. No.	49.7



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: Sun Aug 6 15:01:34 CEST 2017

From date 2017-07-30 upto 2017-08-06 15:01

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: 731 db records, deleted 0 NaN records.

Database table BdP_3f18c330 sensor (column) pm25: 731 db records, deleted 0 NaN records.

Collected 731 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 06 2017 15:01, interval timing 15m:0s.

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

number 731, min=316.14, max=97106.38

avg=2014.46, std dev=5406.62

R-squared (R^2) with BdP_3f18c330/pm25: 0.6350

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

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

4.228e+02, 9.224e-02

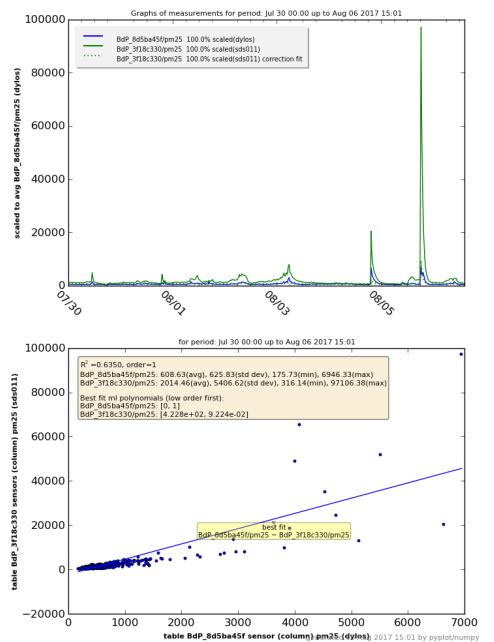
Statistical summary linear regression for BdP_8d5ba45f/pm25 with ['BdP_3f18c330/pm25']:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/pm25	R-squared:	0.635
Model:	OLS	Adj. R-squared:	0.635
Method:	Least Squares	F-statistic:	1268.
Date:	Sun, 06 Aug 2017	Prob (F-statistic):	1.03e-161
Time:	15:01:35	Log-Likelihood:	-5375.8
No. Observations:	731	AIC:	1.076e+04
Df Residuals:	729	BIC:	1.076e+04
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_3f18c330/pm25	422.8113	14.944	28.294	0.000 393.474 452.149

Omnibus:	709.933	Durbin-Watson:	0.402
Prob(Omnibus):	0.000	Jarque-Bera (JB):	58490.755
Skew:	4.118	Prob(JB):	0.00
Kurtosis:	46.041	Cond. No.	6.16e+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: Sun Aug 6 15:01:36 CEST 2017

From date 2017-07-30 upto 2017-08-06 15:01

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: 731 db records, deleted 0 NaN records.

Database table BdP_3f18c330 sensor (column) pm25_pcsqf: 732 db records, deleted 0 NaN records.

Collected 731 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 06 2017 15:01, interval timing 15m:0s.

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

number 731, min=124.62, max=3127.00

avg=393.40, std dev=194.87

R-squared (R^2) with BdP_3f18c330/pm25_pcsqf: 0.5473

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

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

-3.261e+02, 2.376e+00

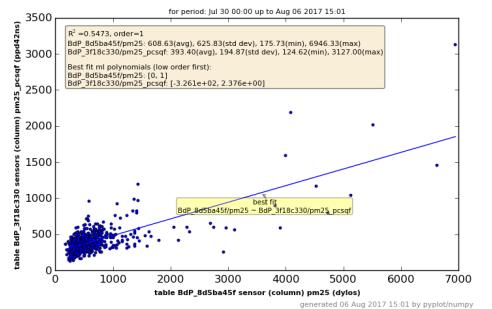
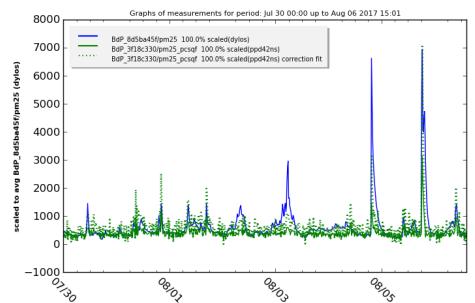
Statistical summary linear regression for BdP_8d5ba45f/pm25 with [BdP_3f18c330/pm25_pcsqf]:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/pm25	R-squared:	0.547
Model:	OLS	Adj. R-squared:	0.547
Method:	Least Squares	F-statistic:	881.5
Date:	Sun, 06 Aug 2017	Prob (F-statistic):	1.34e-127
Time:	15:01:37	Log-Likelihood:	-5454.5
No. Observations:	731	AIC:	1.091e+04
Df Residuals:	729	BIC:	1.092e+04
Df Model:	1		

coef	std err	t	P> t	95.0% Conf. Int.]
BdP_3f18c330/pm25_pcsqf	-326.0791	35.133	-9.281	0.000 -395.053 -257.105

Omnibus:	590.404	Durbin-Watson:	0.679
Prob(Omnibus):	0.000	Jarque-Bera (JB):	15068.878
Skew:	3.466	Prob(JB):	0.00
Kurtosis:	24.135	Cond. No.	989.



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: Sun Aug 6 15:01:38 CEST 2017

From date 2017-07-30 upto 2017-08-06 15:01

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: 731 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm25: 732 db records, deleted 0 NaN records.

Collected 731 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 06 2017 15:01, interval timing 15m:0s.

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

number 731, min=405.57, max=107982.71

avg=2272.12, std dev=5797.36

R-squared (R^2) with BdP_33040d54/pm25: 0.6102

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

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

4.170e+02, 8.433e-02

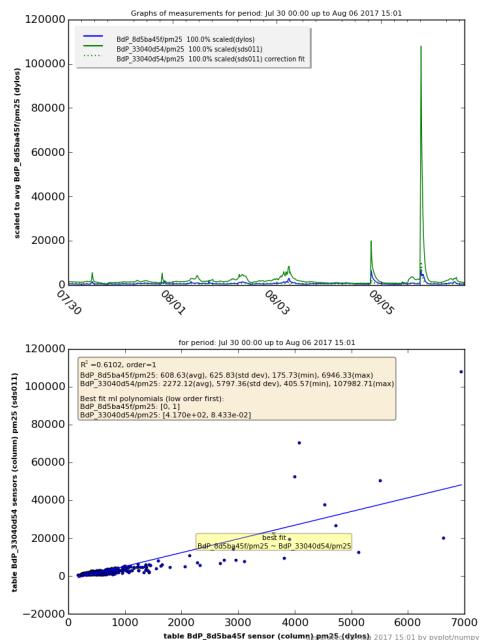
Statistical summary linear regression for BdP_8d5ba45f/pm25 with ['BdP_33040d54/pm25']:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/pm25	R-squared:	0.610
Model:	OLS	Adj. R-squared:	0.610
Method:	Least Squares	F-statistic:	1141.
Date:	Sun, 06 Aug 2017	Prob (F-statistic):	2.77e-151
Time:	15:01:39	Log-Likelihood:	-5399.9
No. Observations:	731	AIC:	1.080e+04
Df Residuals:	729	BIC:	1.081e+04
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm25	417.0300	15.543	26.830	0.000 386.515 447.545

Omnibus:	732.273	Durbin-Watson:	0.441
Prob(Omnibus):	0.000	Jarque-Bera (JB):	63399.705
Skew:	4.327	Prob(JB):	0.00
Kurtosis:	47.795	Cond. No.	6.69e+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: Sun Aug 6 15:01:41 CEST 2017

From date 2017-07-30 upto 2017-08-06 15:01

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: 731 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm25_pcsqf: 732 db records, deleted 0 NaN records.

Collected 731 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 06 2017 15:01, interval timing 15m:0s.

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

number 731, min=2106.00, max=4894.29

avg=2421.41, std dev=280.32

R-squared (R^2) with BdP_33040d54/pm25_pcsqf: 0.7988

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

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

-4.223e+03, 1.995e+00

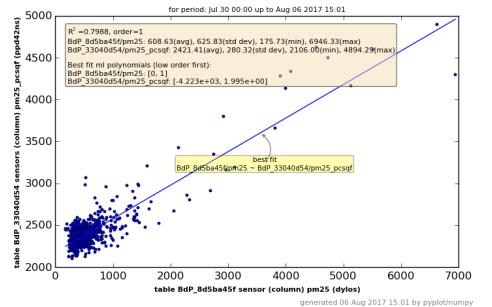
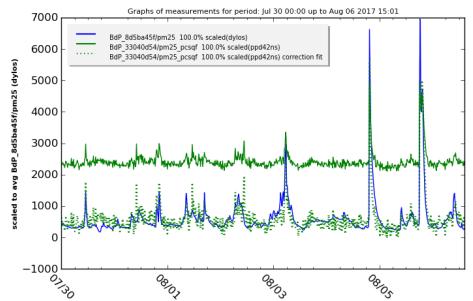
Statistical summary linear regression for BdP_8d5ba45f/pm25 with [BdP_33040d54/pm25_pcsqf]:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/pm25	R-squared:	0.799
Model:	OLS	Adj. R-squared:	0.799
Method:	Least Squares	F-statistic:	2895.
Date:	Sun, 06 Aug 2017	Prob (F-statistic):	4.76e-256
Time:	15:01:41	Log-Likelihood:	-5158.1
No. Observations:	731	AIC:	1.032e+04
Df Residuals:	729	BIC:	1.033e+04
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm25_pcsqf	-4223.0933	90.406	-46.712	0.000 -4400.581 -4045.605

Omnibus:	294.220	Durbin-Watson:	1.089
Prob(Omnibus):	0.000	Jarque-Bera (JB):	4444.127
Skew:	1.388	Prob(JB):	0.00
Kurtosis:	14.756	Cond. No.	2.12e+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: Sun Aug 6 15:01:43 CEST 2017

From date 2017-07-30 upto 2017-08-06 15:01

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: 731 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm25_atm: 732 db records, deleted 0 NaN records.

Collected 731 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 06 2017 15:01, interval timing 15m:0s.

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

number 731, min=100.60, max=115010.00

avg=3465.42, std dev=6767.91

R-squared (R^2) with BdP_33040d54/pm25_atm: 0.6489

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

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

3.505e+02, 7.449e-02

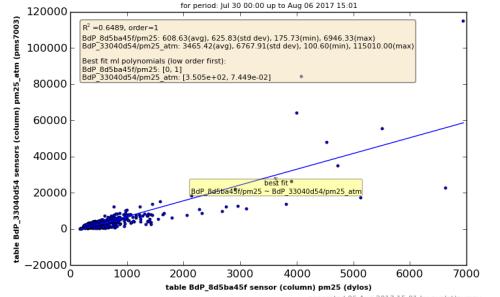
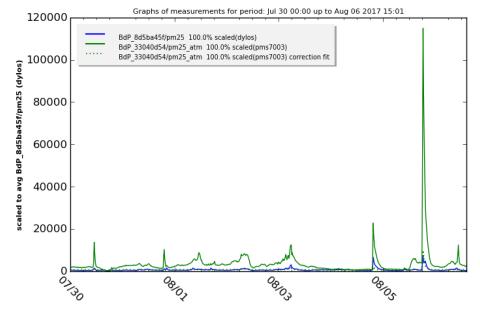
Statistical summary linear regression for BdP_8d5ba45f/pm25 with [BdP_33040d54/pm25_atm]:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/pm25	R-squared:	0.649
Model:	OLS	Adj. R-squared:	0.648
Method:	Least Squares	F-statistic:	1347.
Date:	Sun, 06 Aug 2017	Prob (F-statistic):	7.62e-168
Time:	15:01:43	Log-Likelihood:	-5361.7
No. Observations:	731	AIC:	1.073e+04
Df Residuals:	729	BIC:	1.074e+04
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm25_atm	350.4970	15.431	22.715	0.000 320.203 380.791

Omnibus:	768.390	Durbin-Watson:	0.472
Prob(Omnibus):	0.000	Jarque-Bera (JB):	82953.441
Skew:	4.617	Prob(JB):	0.00
Kurtosis:	54.364	Cond. No.	8.54e+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: Sun Aug 6 15:01:45 CEST 2017

From date 2017-07-30 upto 2017-08-06 15:01

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: 731 db records, deleted 0 NaN records.

Database table BdP_3f18c330 sensor (column) pm25_pcsqf: 732 db records, deleted 0 NaN records.

Collected 731 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 06 2017 15:01, interval timing 15m:0s.

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

number 731, min=124.62, max=3127.00

avg=393.40, std dev=194.87

R-squared (R^2) with BdP_3f18c330/pm25_pcsqf: 0.6317

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

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

-6.661e+03, 2.205e+01

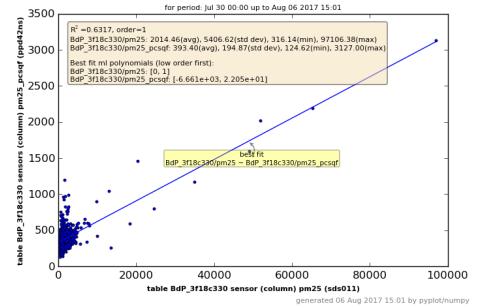
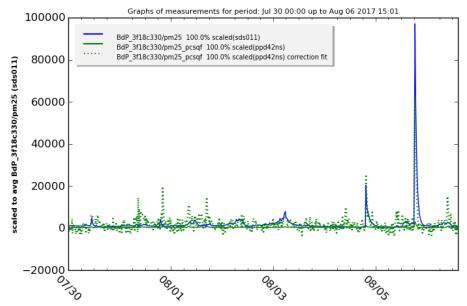
Statistical summary linear regression for BdP_3f18c330/pm25 with ['BdP_3f18c330/pm25_pcsqf']:

OLS Regression Results

Dep. Variable:	BdP_3f18c330/pm25	R-squared:	0.632
Model:	OLS	Adj. R-squared:	0.631
Method:	Least Squares	F-statistic:	1251.
Date:	Sun, 06 Aug 2017	Prob (F-statistic):	2.74e-160
Time:	15:01:45	Log-Likelihood:	-6955.4
No. Observations:	731	AIC:	1.391e+04
Df Residuals:	729	BIC:	1.392e+04
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_3f18c330/pm25_pcsqf	-6660.7412273.769	-24.330	0.000	-7198.211 -6123.271

Omnibus:	468.357	Durbin-Watson:	0.851
Prob(Omnibus):	0.000	Jarque-Bera (JB):	21719.719
Skew:	2.224	Prob(JB):	0.00
Kurtosis:	29.331	Cond. No.	989.



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: Sun Aug 6 15:01:47 CEST 2017

From date 2017-07-30 upto 2017-08-06 15:01

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: 731 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm25: 732 db records, deleted 0 NaN records.

Collected 731 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 06 2017 15:01, interval timing 15m:0s.

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

number 731, min=405.57, max=107982.71

avg=2272.12, std dev=5797.36

R-squared (R^2) with BdP_33040d54/pm25: 0.9971

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

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

-1.014e+02, 9.312e-01

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

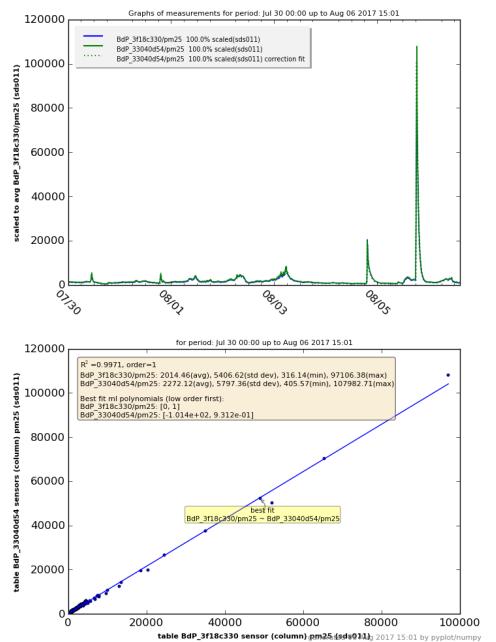
OLS Regression Results

Dep. Variable:	BdP_3f18c330/pm25	R-squared:	0.997
Model:	OLS	Adj. R-squared:	0.997
Method:	Least Squares	F-statistic:	2.470e+05
Date:	Sun, 06 Aug 2017	Prob (F-statistic):	0.00
Time:	15:01:47	Log-Likelihood:	-5190.2
No. Observations:	731	AIC:	1.038e+04
Df Residuals:	729	BIC:	1.039e+04
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm25	-101.3968	11.667	8.691	0.000
	-8.691	0.000	-124.302	-78.492

Omnibus: 1047.229 Durbin-Watson: 2.077

Prob(Omnibus):	0.000	Jarque-Bera (JB):	1007933.806
Skew:	7.185	Prob(JB):	0.00
Kurtosis:	184.344	Cond. No.	6.69e+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: Sun Aug 6 15:01:49 CEST 2017

From date 2017-07-30 upto 2017-08-06 15:01

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: 731 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm25_pcsqf: 732 db records, deleted 0 NaN records.

Collected 731 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 06 2017 15:01, interval timing 15m:0s.

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

number 731, min=2106.00, max=4894.29

avg=2421.41, std dev=280.32

R-squared (R^2) with BdP_33040d54/pm25_pcsqf: 0.5475

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

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

-3.254e+04, 1.427e+01

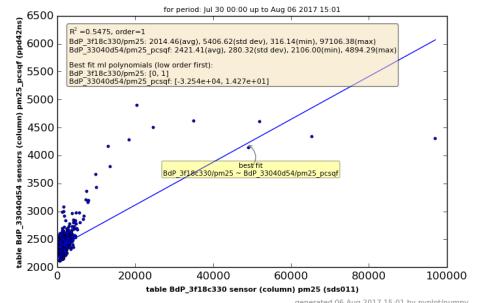
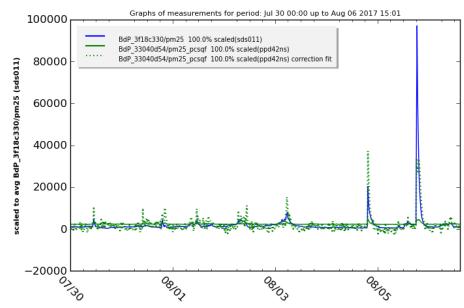
Statistical summary linear regression for BdP_3f18c330/pm25 with [BdP_33040d54/pm25_pcsqf]:

OLS Regression Results

Dep. Variable:	BdP_3f18c330/pm25	R-squared:	0.548
Model:	OLS	Adj. R-squared:	0.547
Method:	Least Squares	F-statistic:	882.1
Date:	Sun, 06 Aug 2017	Prob (F-statistic):	1.17e-127
Time:	15:01:49	Log-Likelihood:	-7030.6
No. Observations:	731	AIC:	1.407e+04
Df Residuals:	729	BIC:	1.407e+04
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm25_pcsqf	-3.254e+04	1171.326	-27.783	0.000 -3.48e+04 -3.02e+04

Omnibus:	1243.826	Durbin-Watson:	0.763
Prob(Omnibus):	0.000	Jarque-Bera (JB):	1053493.746
Skew:	10.484	Prob(JB):	0.00
Kurtosis:	187.793	Cond. No.	2.12e+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: Sun Aug 6 15:01:51 CEST 2017

From date 2017-07-30 upto 2017-08-06 15:01

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: 731 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm25_atm: 732 db records, deleted 0 NaN records.

Collected 731 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 06 2017 15:01, interval timing 15m:0s.

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

number 731, min=100.60, max=115010.00

avg=3465.42, std dev=6767.91

R-squared (R^2) with BdP_33040d54/pm25_atm: 0.9726

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

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

-7.158e+02, 7.878e-01

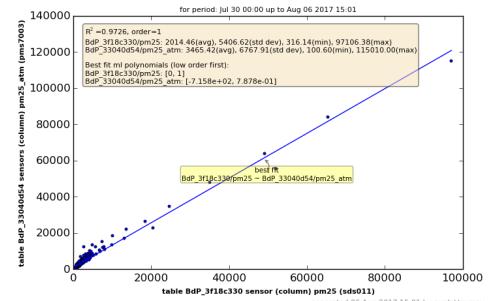
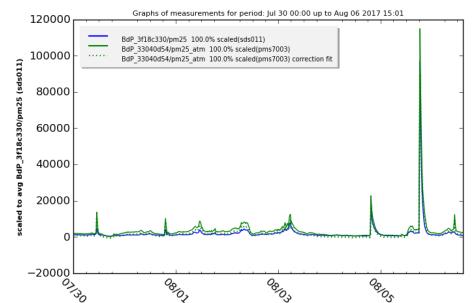
Statistical summary linear regression for BdP_3f18c330/pm25 with ['BdP_33040d54/pm25_atm']:

OLS Regression Results

Dep. Variable:	BdP_3f18c330/pm25	R-squared:	0.973
Model:	OLS	Adj. R-squared:	0.973
Method:	Least Squares	F-statistic:	2.590e+04
Date:	Sun, 06 Aug 2017	Prob (F-statistic):	0.00
Time:	15:01:51	Log-Likelihood:	-6005.4
No. Observations:	731	AIC:	1.201e+04
Df Residuals:	729	BIC:	1.202e+04
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm25_atm	-715.7657	37.223	-19.229	0.000 -788.843 -642.689

Omnibus:	252.950	Durbin-Watson:	0.463
Prob(Omnibus):	0.000	Jarque-Bera (JB):	18478.264
Skew:	0.619	Prob(JB):	0.00
Kurtosis:	27.600	Cond. No.	8.54e+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: Sun Aug 6 15:01:53 CEST 2017

From date 2017-07-30 upto 2017-08-06 15:01

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: 732 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm25: 732 db records, deleted 0 NaN records.

Collected 732 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 06 2017 15:01, interval timing 15m:0s.

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

number 732, min=405.57, max=107982.71

avg=2270.60, std dev=5793.55

R-squared (R^2) with BdP_33040d54/pm25: 0.6206

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

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

3.327e+02, 2.653e-02

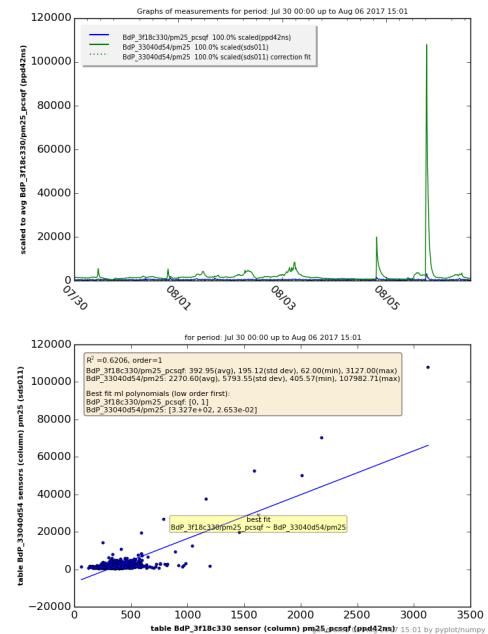
Statistical summary linear regression for BdP_3f18c330/pm25_pcsqf with ['BdP_33040d54/pm25']:

OLS Regression Results

Dep. Variable:	BdP_3f18c330/pm25_pcsqf	R-squared:	0.621
Model:	OLS	Adj. R-squared:	0.620
Method:	Least Squares	F-statistic:	1194.
Date:	Sun, 06 Aug 2017	Prob (F-statistic):	8.46e-156
Time:	15:01:54	Log-Likelihood:	-4544.2
No. Observations:	732	AIC:	9092.
Df Residuals:	730	BIC:	9102.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm25	332.7020	4.777	69.640	0.000 323.323 342.081

Omnibus:	281.182	Durbin-Watson:	1.239
Prob(Omnibus):	0.000	Jarque-Bera (JB):	1658.843
Skew:	1.619	Prob(JB):	0.00
Kurtosis:	9.626	Cond. No.	6.68e+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: Sun Aug 6 15:01:55 CEST 2017

From date 2017-07-30 upto 2017-08-06 15:01

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: 732 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm25_pcsqf: 732 db records, deleted 0 NaN records.

Collected 732 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 06 2017 15:01, interval timing 15m:0s.

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

number 732, min=2106.00, max=4894.29

avg=2421.13, std dev=280.23

R-squared (R^2) with BdP_33040d54/pm25_pcsqf: 0.4462

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

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

-7.331e+02, 4.651e-01

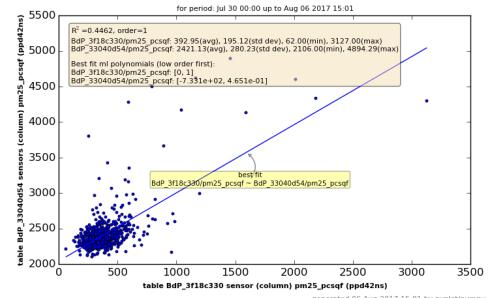
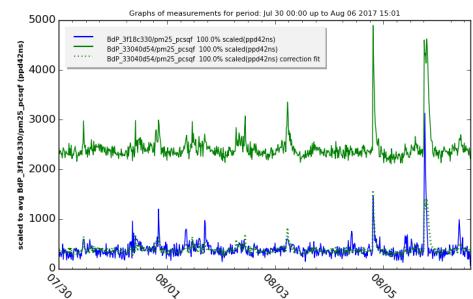
Statistical summary linear regression for BdP_3f18c330/pm25_pcsqf with ['BdP_33040d54/pm25_pcsqf']:

OLS Regression Results

Dep. Variable:	BdP_3f18c330/pm25_pcsqf	R-squared:	0.446
Model:	OLS	Adj. R-squared:	0.445
Method:	Least Squares	F-statistic:	588.1
Date:	Sun, 06 Aug 2017	Prob (F-statistic):	9.38e-96
Time:	15:01:56	Log-Likelihood:	-4682.7
No. Observations:	732	AIC:	9369.
Df Residuals:	730	BIC:	9379.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm25_pcsqf	-733.1335	46.743	-15.684	0.000 -824.901 -641.366

Omnibus:	621.483	Durbin-Watson:	1.193
Prob(Omnibus):	0.000	Jarque-Bera (JB):	52422.578
Skew:	3.259	Prob(JB):	0.00
Kurtosis:	43.943	Cond. No.:	2.12e+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: Sun Aug 6 15:01:57 CEST 2017

From date 2017-07-30 upto 2017-08-06 15:01

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: 732 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm25_atm: 732 db records, deleted 0 NaN records.

Collected 732 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 06 2017 15:01, interval timing 15m:0s.

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

number 732, min=100.60, max=115010.00

avg=3464.11, std dev=6763.38

R-squared (R^2) with BdP_33040d54/pm25_atm: 0.5966

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

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

3.158e+02, 2.228e-02

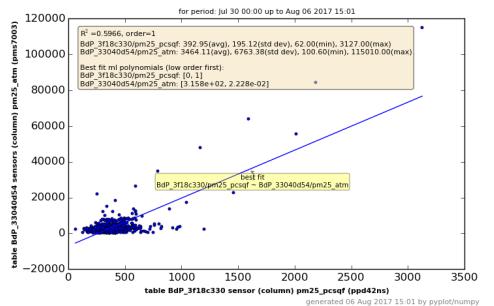
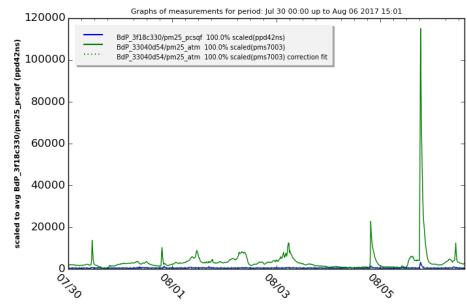
Statistical summary linear regression for BdP_3f18c330/pm25_pcsqf with ['BdP_33040d54/pm25_atm']:

OLS Regression Results

Dep. Variable:	BdP_3f18c330/pm25_pcsqf	R-squared:	0.597
Model:	OLS	Adj. R-squared:	0.596
Method:	Least Squares	F-statistic:	1080.
Date:	Sun, 06 Aug 2017	Prob (F-statistic):	4.64e-146
Time:	15:01:58	Log-Likelihood:	-4566.7
No. Observations:	732	AIC:	9137.
Df Residuals:	730	BIC:	9147.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm25_atm	315.7531	5.153	61.272	0.000 305.636 325.870

Omnibus:	255.535	Durbin-Watson:	1.191
Prob(Omnibus):	0.000	Jarque-Bera (JB):	1574.965
Skew:	1.432	Prob(JB):	0.00
Kurtosis:	9.591	Cond. No.:	8.54e+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: Sun Aug 6 15:01:59 CEST 2017

From date 2017-07-30 upto 2017-08-06 15:01

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: 732 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm25_pcsqf: 732 db records, deleted 0 NaN records.

Collected 732 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 06 2017 15:01, interval timing 15m:0s.

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

number 732, min=2106.00, max=4894.29

avg=2421.13, std dev=280.23

R-squared (R^2) with BdP_33040d54/pm25_pcsqf: 0.5238

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

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

-3.396e+04, 1.496e+01

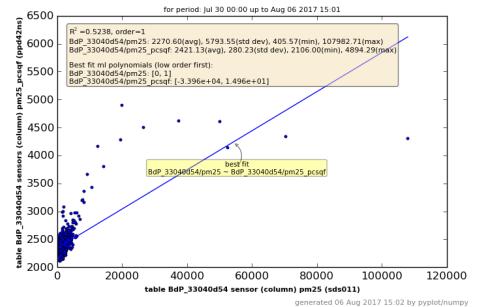
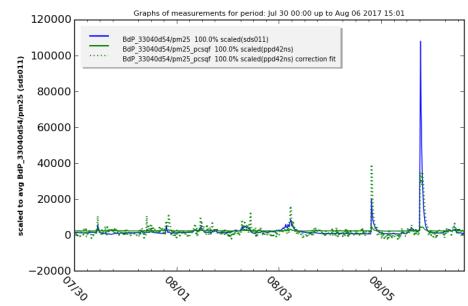
Statistical summary linear regression for BdP_33040d54/pm25 with [BdP_33040d54/pm25_pcsqf]:

OLS Regression Results

Dep. Variable:	BdP_33040d54/pm25	R-squared:	0.524
Model:	OLS	Adj. R-squared:	0.523
Method:	Least Squares	F-statistic:	803.0
Date:	Sun, 06 Aug 2017	Prob (F-statistic):	1.00e-119
Time:	15:02:00	Log-Likelihood:	-7109.5
No. Observations:	732	AIC:	1.422e+04
Df Residuals:	730	BIC:	1.423e+04
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm25_pcsqf	-3.396e+04	1286.982	-26.385	0.000 -3.65e+04 -3.14e+04

Omnibus:	1291.393	Durbin-Watson:	0.817
Prob(Omnibus):	0.000	Jarque-Bera (JB):	1331047.488
Skew:	11.254	Prob(JB):	0.00
Kurtosis:	210.688	Cond. No.	2.12e+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: Sun Aug 6 15:02:01 CEST 2017

From date 2017-07-30 upto 2017-08-06 15:02

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: 732 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm25_atm: 732 db records, deleted 0 NaN records.

Collected 732 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 06 2017 15:02, interval timing 15m:0s.

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

number 732, min=100.60, max=115010.00

avg=3464.11, std dev=6763.38

R-squared (R^2) with BdP_33040d54/pm25_atm: 0.9748

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

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

-6.591e+02, 8.457e-01

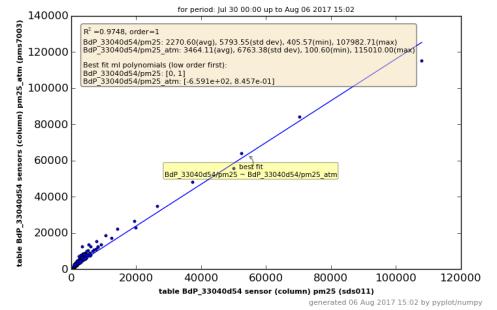
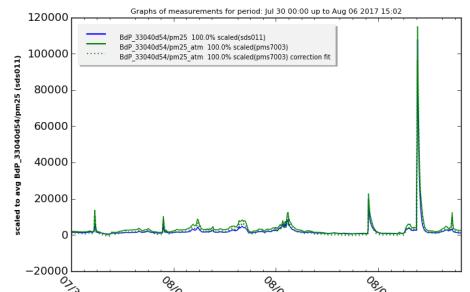
Statistical summary linear regression for BdP_33040d54/pm25 with ['BdP_33040d54/pm25_atm']:

OLS Regression Results

Dep. Variable:	BdP_33040d54/pm25	R-squared:	0.975
Model:	OLS	Adj. R-squared:	0.975
Method:	Least Squares	F-statistic:	2.823e+04
Date:	Sun, 06 Aug 2017	Prob (F-statistic):	0.00
Time:	15:02:02	Log-Likelihood:	-6034.0
No. Observations:	732	AIC:	1.207e+04
Df Residuals:	730	BIC:	1.208e+04
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm25_atm	-659.1376	38.251	-17.232	0.000 -734.233 -584.042

Omnibus:	336.196	Durbin-Watson:	0.528
Prob(Omnibus):	0.000	Jarque-Bera (JB):	43622.189
Skew:	1.008	Prob(JB):	0.00
Kurtosis:	40.765	Cond. No.	8.54e+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: Sun Aug 6 15:02:03 CEST 2017

From date 2017-07-30 upto 2017-08-06 15:02

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: 732 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm25_atm: 732 db records, deleted 0 NaN records.

Collected 732 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 06 2017 15:02, interval timing 15m:0s.

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

number 732, min=100.60, max=115010.00

avg=3464.11, std dev=6763.38

R-squared (R^2) with BdP_33040d54/pm25_atm: 0.5807

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

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

2.312e+03, 3.157e-02

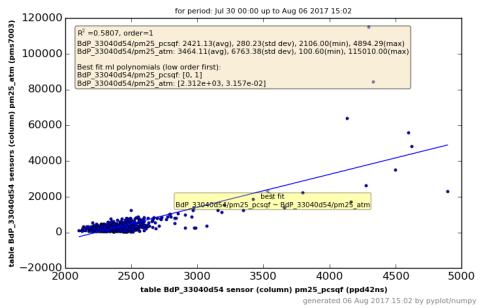
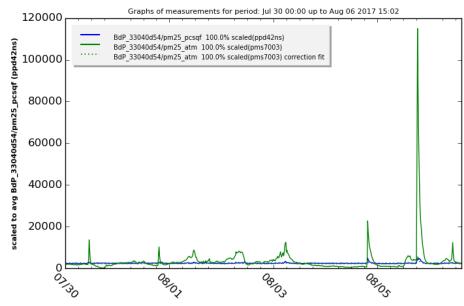
Statistical summary linear regression for BdP_33040d54/pm25_pcsqf with ['BdP_33040d54/pm25_atm']:

OLS Regression Results

Dep. Variable:	BdP_33040d54/pm25_pcsqf	R-squared:	0.581
Model:	OLS	Adj. R-squared:	0.580
Method:	Least Squares	F-statistic:	1011.
Date:	Sun, 06 Aug 2017	Prob (F-statistic):	6.42e-140
Time:	15:02:04	Log-Likelihood:	-4845.8
No. Observations:	732	AIC:	9696.
Df Residuals:	730	BIC:	9705.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm25_atm	2311.7522	7.546	306.369	0.000 2296.938 2326.566

Omnibus:	503.563	Durbin-Watson:	0.997
Prob(Omnibus):	0.000	Jarque-Bera (JB):	33501.396
Skew:	2.366	Prob(JB):	0.00
Kurtosis:	35.803	Cond. No.	8.54e+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: Sun Aug 6 15:02:05 CEST 2017

From date 2017-07-30 upto 2017-08-06 15:02

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: 624 db records, deleted 0 NaN records.

Database table BdP_8d5ba45f sensor (column) temp: 731 db records, deleted 0 NaN records.

Collected 624 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 06 2017 15:02, interval timing 15m:0s.

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

number 624, min=26.29, max=31.92

avg=29.25, std dev= 1.18

R-squared (R^2) with BdP_8d5ba45f/temp: 0.9589

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

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

-5.053e+00, 1.110e+00

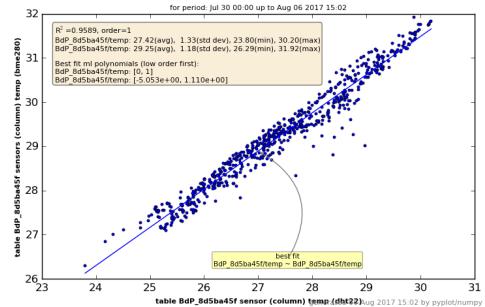
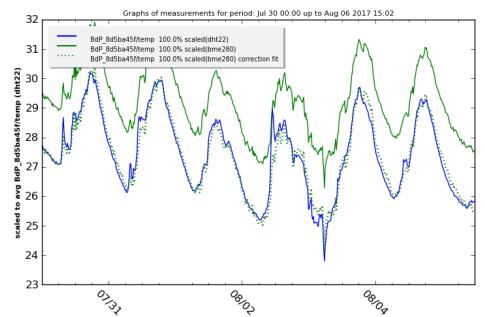
Statistical summary linear regression for BdP_8d5ba45f/temp with ['BdP_8d5ba45f/temp']:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/temp	R-squared:	0.959
Model:	OLS	Adj. R-squared:	0.959
Method:	Least Squares	F-statistic:	1.453e+04
Date:	Sun, 06 Aug 2017	Prob (F-statistic):	0.00
Time:	15:02:06	Log-Likelihood:	-68.195
No. Observations:	624	AIC:	140.4
Df Residuals:	622	BIC:	149.3
Df Model:	1		

coef	std err	t	P> t [95.0% Conf. Int.]
BdP_8d5ba45f/temp	-5.0529	0.270	-18.741 0.000 -5.582 -4.523

Omnibus:	215.088	Durbin-Watson:	0.220
Prob(Omnibus):	0.000	Jarque-Bera (JB):	1166.571
Skew:	1.437	Prob(JB):	4.81e-254
Kurtosis:	9.051	Cond. No.	730.



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: Sun Aug 6 15:02:07 CEST 2017

From date 2017-07-30 upto 2017-08-06 15:02

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: 624 db records, deleted 0 NaN records.

Database table BdP_3f18c330 sensor (column) temp: 732 db records, deleted 0 NaN records.

Collected 624 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 06 2017 15:02, interval timing 15m:0s.

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

number 624, min=25.65, max=31.98

avg=29.34, std dev= 1.21

R-squared (R^2) with BdP_3f18c330/temp: 0.9316

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

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

-3.704e+00, 1.061e+00

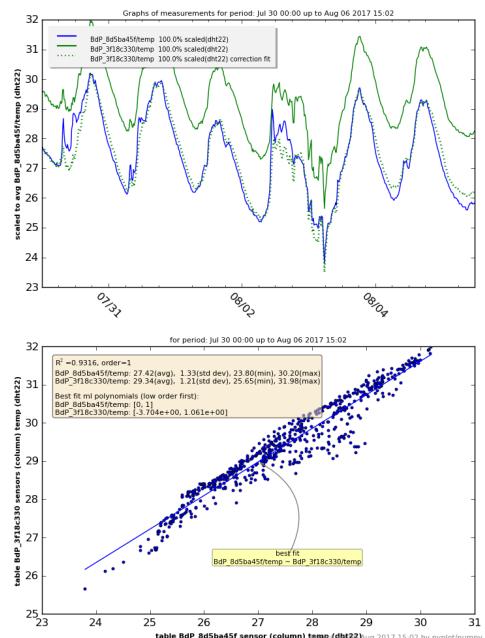
Statistical summary linear regression for BdP_8d5ba45f/temp with ['BdP_3f18c330/temp']:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/temp	R-squared:	0.932
Model:	OLS	Adj. R-squared:	0.932
Method:	Least Squares	F-statistic:	8476.
Date:	Sun, 06 Aug 2017	Prob (F-statistic):	0.00
Time:	15:02:08	Log-Likelihood:	-227.30
No. Observations:	624	AIC:	458.6
Df Residuals:	622	BIC:	467.5
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_3f18c330/temp	-3.7040	0.338	-10.948	0.000 -4.368 -3.040

Omnibus:	149.286	Durbin-Watson:	0.078
Prob(Omnibus):	0.000	Jarque-Bera (JB):	308.465
Skew:	1.315	Prob(JB):	1.04e-67
Kurtosis:	5.224	Cond. No.	712.



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: Sun Aug 6 15:02:09 CEST 2017

From date 2017-07-30 upto 2017-08-06 15:02

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: 624 db records, deleted 0 NaN records.

Database table BdP_3f18c330 sensor (column) temp: 732 db records, deleted 0 NaN records.

Collected 624 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 06 2017 15:02, interval timing 15m:0s.

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

number 624, min=27.14, max=33.73

avg=30.95, std dev= 1.25

R-squared (R^2) with BdP_3f18c330/temp: 0.9102

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

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

-3.985e+00, 1.015e+00

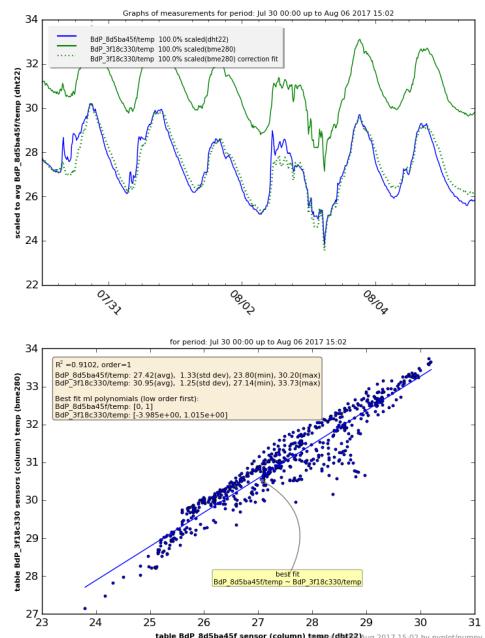
Statistical summary linear regression for BdP_8d5ba45f/temp with ['BdP_3f18c330/temp']:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/temp	R-squared:	0.910
Model:	OLS	Adj. R-squared:	0.910
Method:	Least Squares	F-statistic:	6303.
Date:	Sun, 06 Aug 2017	Prob (F-statistic):	0.00
Time:	15:02:10	Log-Likelihood:	-312.42
No. Observations:	624	AIC:	628.8
Df Residuals:	622	BIC:	637.7
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_3f18c330/temp	-3.9852	0.396	-10.067	0.000 -4.763 -3.208

Omnibus:	159.257	Durbin-Watson:	0.085
Prob(Omnibus):	0.000	Jarque-Bera (JB):	382.488
Skew:	1.320	Prob(JB):	8.78e-84
Kurtosis:	5.782	Cond. No.	767.



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: Sun Aug 6 15:02:12 CEST 2017

From date 2017-07-30 upto 2017-08-06 15:02

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: 731 db records, deleted 0 NaN records.

Database table BdP_3f18c330 sensor (column) temp: 732 db records, deleted 0 NaN records.

Collected 731 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 06 2017 15:02, interval timing 15m:0s.

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

number 731, min=25.65, max=31.98

avg=29.13, std dev= 1.32

R-squared (R^2) with BdP_3f18c330/temp: 0.9472

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

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

1.858e-01, 9.889e-01

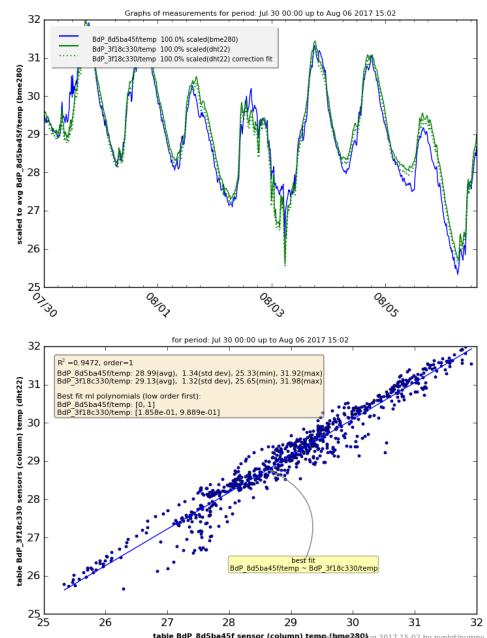
Statistical summary linear regression for BdP_8d5ba45f/temp with ['BdP_3f18c330/temp']:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/temp	R-squared:	0.947
Model:	OLS	Adj. R-squared:	0.947
Method:	Least Squares	F-statistic:	1.308e+04
Date:	Sun, 06 Aug 2017	Prob (F-statistic):	0.00
Time:	15:02:12	Log-Likelihood:	-178.33
No. Observations:	731	AIC:	360.7
Df Residuals:	729	BIC:	369.8
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_3f18c330/temp	0.1858 0.252	0.737 0.461	-0.309 0.681	

Omnibus:	109.731	Durbin-Watson:	0.170
Prob(Omnibus):	0.000	Jarque-Bera (JB):	189.258
Skew:	0.931	Prob(JB):	8.00e-42
Kurtosis:	4.658	Cond. No.	643.



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: Sun Aug 6 15:02:14 CEST 2017

From date 2017-07-30 upto 2017-08-06 15:02

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: 731 db records, deleted 0 NaN records.

Database table BdP_3f18c330 sensor (column) temp: 732 db records, deleted 0 NaN records.

Collected 731 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 06 2017 15:02, interval timing 15m:0s.

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

number 731, min=27.14, max=33.73

avg=30.72, std dev= 1.37

R-squared (R^2) with BdP_3f18c330/temp: 0.9403

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

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

-1.662e-01, 9.490e-01

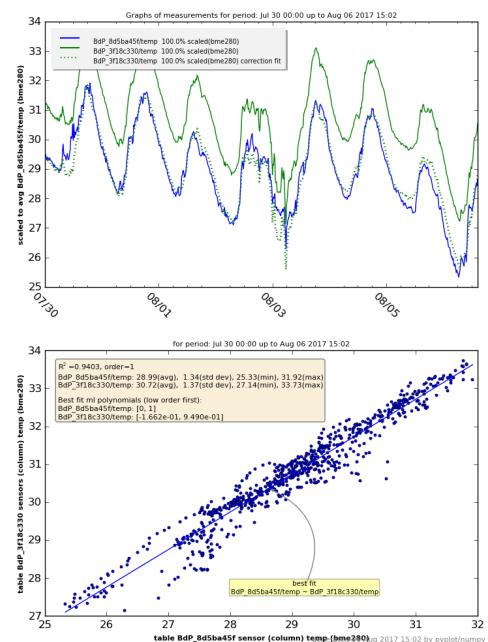
Statistical summary linear regression for BdP_8d5ba45f/temp with ['BdP_3f18c330/temp']:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/temp	R-squared:	0.940
Model:	OLS	Adj. R-squared:	0.940
Method:	Least Squares	F-statistic:	1.148e+04
Date:	Sun, 06 Aug 2017	Prob (F-statistic):	0.00
Time:	15:02:14	Log-Likelihood:	-223.38
No. Observations:	731	AIC:	450.8
Df Residuals:	729	BIC:	459.9
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_3f18c330/temp	-0.1662	0.272	-0.610	0.542 -0.701 0.369

Omnibus:	88.072	Durbin-Watson:	0.175
Prob(Omnibus):	0.000	Jarque-Bera (JB):	142.314
Skew:	0.797	Prob(JB):	1.25e-31
Kurtosis:	4.461	Cond. No.	689.



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: Sun Aug 6 15:02:16 CEST 2017

From date 2017-07-30 upto 2017-08-06 15:02

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: 732 db records, deleted 0 NaN records.

Database table BdP_3f18c330 sensor (column) temp: 732 db records, deleted 0 NaN records.

Collected 732 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 06 2017 15:02, interval timing 15m:0s.

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

number 732, min=27.14, max=33.73

avg=30.72, std dev= 1.37

R-squared (R^2) with BdP_3f18c330/temp: 0.9953

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

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

-3.949e-01, 9.609e-01

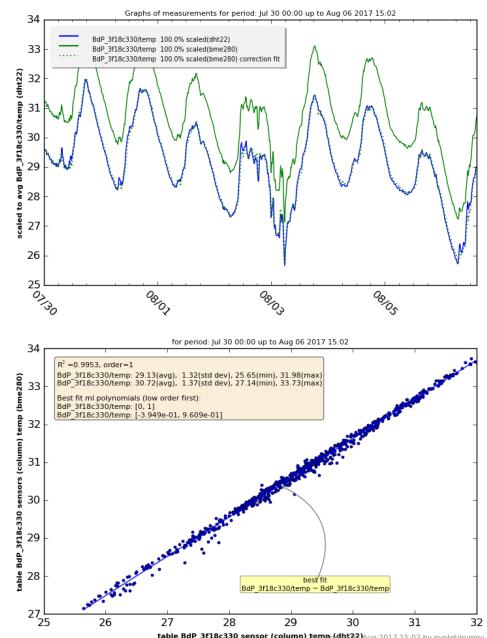
Statistical summary linear regression for BdP_3f18c330/temp with ['BdP_3f18c330/temp']:

OLS Regression Results

Dep. Variable:	BdP_3f18c330/temp	R-squared:	0.995
Model:	OLS	Adj. R-squared:	0.995
Method:	Least Squares	F-statistic:	1.543e+05
Date:	Sun, 06 Aug 2017	Prob (F-statistic):	0.00
Time:	15:02:16	Log-Likelihood:	718.07
No. Observations:	732	AIC:	-1432.
Df Residuals:	730	BIC:	-1423.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_3f18c330/temp	-0.3949 0.075	-5.249 0.000	-0.543 -0.247	

Omnibus:	239.808	Durbin-Watson:	0.346
Prob(Omnibus):	0.000	Jarque-Bera (JB):	948.865
Skew:	1.490	Prob(JB):	9.05e-207
Kurtosis:	7.715	Cond. No.	690.



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: Sun Aug 6 15:02:18 CEST 2017

From date 2017-07-30 upto 2017-08-06 15:02

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: 624 db records, deleted 0 NaN records.

Database table BdP_8d5ba45f sensor (column) rh: 731 db records, deleted 0 NaN records.

Collected 624 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 06 2017 15:02, interval timing 15m:0s.

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

number 624, min=35.96, max=56.00

avg=44.11, std dev= 3.39

R-squared (R^2) with BdP_8d5ba45f/rh: 0.9716

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

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

-7.125e+00, 1.325e+00

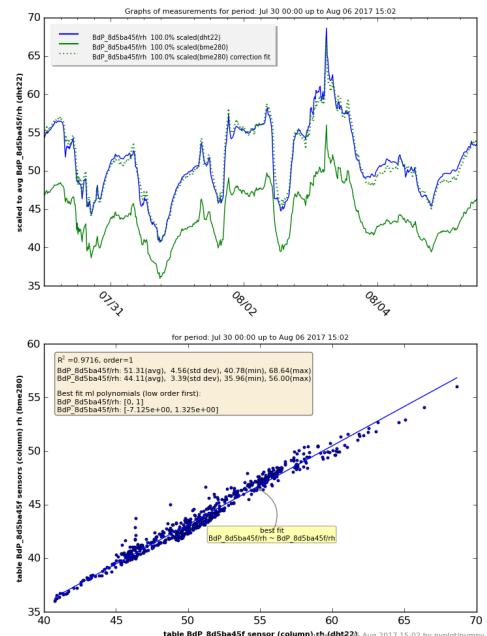
Statistical summary linear regression for BdP_8d5ba45f/rh with [BdP_8d5ba45f/rh]:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/rh	R-squared:	0.972
Model:	OLS	Adj. R-squared:	0.972
Method:	Least Squares	F-statistic:	2.126e+04
Date:	Sun, 06 Aug 2017	Prob (F-statistic):	0.00
Time:	15:02:18	Log-Likelihood:	-721.05
No. Observations:	624	AIC:	1446.
Df Residuals:	622	BIC:	1455.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_8d5ba45f/rh	-7.1254	0.402	-17.726	0.000 -7.915 -6.336

Omnibus:	103.591	Durbin-Watson:	0.198
Prob(Omnibus):	0.000	Jarque-Bera (JB):	294.750
Skew:	-0.815	Prob(JB):	9.91e-65
Kurtosis:	5.947	Cond. No.	577.



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: Sun Aug 6 15:02:20 CEST 2017

From date 2017-07-30 upto 2017-08-06 15:02

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: 624 db records, deleted 0 NaN records.

Database table BdP_3f18c330 sensor (column) rh: 732 db records, deleted 0 NaN records.

Collected 624 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 06 2017 15:02, interval timing 15m:0s.

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

number 624, min=30.02, max=53.51

avg=38.78, std dev= 3.89

R-squared (R^2) with BdP_3f18c330/rh: 0.9560

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

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

6.828e+00, 1.147e+00

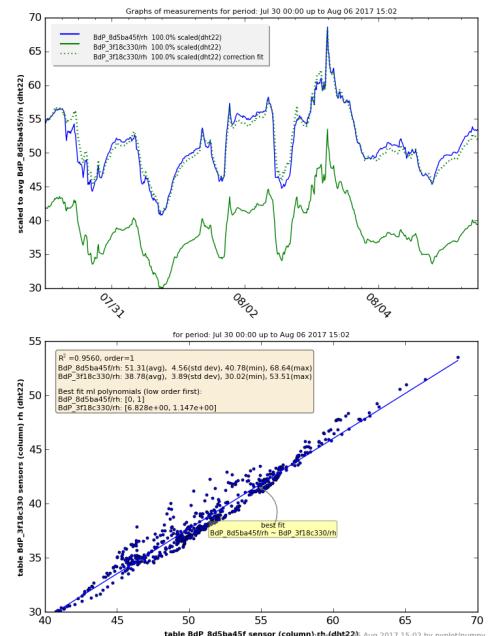
Statistical summary linear regression for BdP_8d5ba45f/rh with [BdP_3f18c330/rh]:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/rh	R-squared:	0.956
Model:	OLS	Adj. R-squared:	0.956
Method:	Least Squares	F-statistic:	1.350e+04
Date:	Sun, 06 Aug 2017	Prob (F-statistic):	0.00
Time:	15:02:21	Log-Likelihood:	-857.61
No. Observations:	624	AIC:	1719.
Df Residuals:	622	BIC:	1728.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_3f18c330/rh	6.8283	0.385	17.749	0.000 6.073 7.584

Omnibus:	134.933	Durbin-Watson:	0.079
Prob(Omnibus):	0.000	Jarque-Bera (JB):	249.371
Skew:	-1.255	Prob(JB):	7.08e-55
Kurtosis:	4.814	Cond. No.	391.



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: Sun Aug 6 15:02:22 CEST 2017

From date 2017-07-30 upto 2017-08-06 15:02

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: 624 db records, deleted 0 NaN records.

Database table BdP_3f18c330 sensor (column) rh: 732 db records, deleted 0 NaN records.

Collected 624 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 06 2017 15:02, interval timing 15m:0s.

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

number 624, min=29.35, max=49.46

avg=36.65, std dev= 3.28

R-squared (R^2) with BdP_3f18c330/rh: 0.9461

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

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

1.731e+00, 1.352e+00

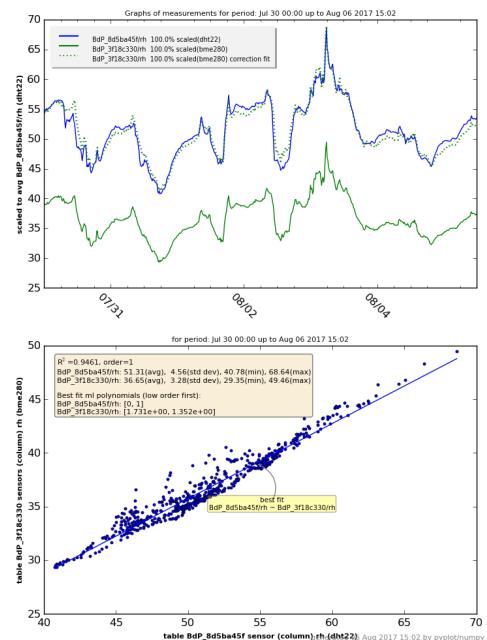
Statistical summary linear regression for BdP_8d5ba45f/rh with [BdP_3f18c330/rh]:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/rh	R-squared:	0.946
Model:	OLS	Adj. R-squared:	0.946
Method:	Least Squares	F-statistic:	1.092e+04
Date:	Sun, 06 Aug 2017	Prob (F-statistic):	0.00
Time:	15:02:23	Log-Likelihood:	-920.46
No. Observations:	624	AIC:	1845.
Df Residuals:	622	BIC:	1854.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_3f18c330/rh	1.7313	0.476	3.636	0.000 0.796 2.667

Omnibus:	143.240	Durbin-Watson:	0.104
Prob(Omnibus):	0.000	Jarque-Bera (JB):	292.449
Skew:	-1.268	Prob(JB):	3.13e-64
Kurtosis:	5.195	Cond. No.	414.



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: Sun Aug 6 15:02:24 CEST 2017

From date 2017-07-30 upto 2017-08-06 15:02

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: 731 db records, deleted 0 NaN records.

Database table BdP_3f18c330 sensor (column) rh: 732 db records, deleted 0 NaN records.

Collected 731 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 06 2017 15:02, interval timing 15m:0s.

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

number 731, min=30.02, max=53.51

avg=38.84, std dev= 3.65

R-squared (R^2) with BdP_3f18c330/rh: 0.9529

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

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

1.062e+01, 8.660e-01

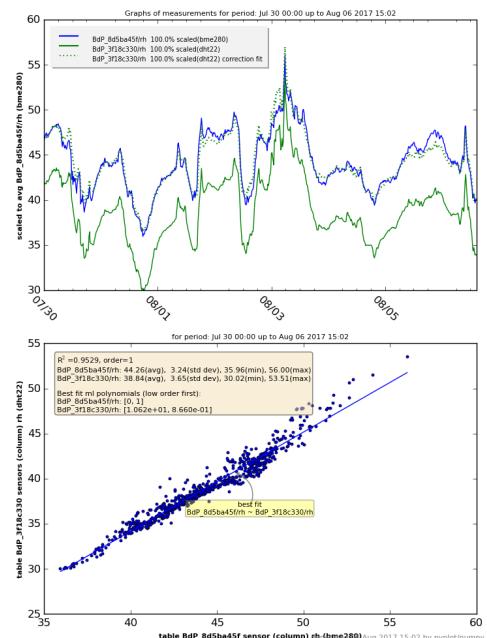
Statistical summary linear regression for BdP_8d5ba45f/rh with [BdP_3f18c330/rh]:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/rh	R-squared:	0.953
Model:	OLS	Adj. R-squared:	0.953
Method:	Least Squares	F-statistic:	1.475e+04
Date:	Sun, 06 Aug 2017	Prob (F-statistic):	0.00
Time:	15:02:25	Log-Likelihood:	-780.18
No. Observations:	731	AIC:	1564.
Df Residuals:	729	BIC:	1574.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_3f18c330/rh	10.6243	0.278	38.191	0.000 10.078 11.170

Omnibus:	40.922	Durbin-Watson:	0.175
Prob(Omnibus):	0.000	Jarque-Bera (JB):	65.815
Skew:	-0.426	Prob(JB):	5.11e-15
Kurtosis:	4.198	Cond. No.	417.



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: Sun Aug 6 15:02:26 CEST 2017

From date 2017-07-30 upto 2017-08-06 15:02

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: 731 db records, deleted 0 NaN records.

Database table BdP_3f18c330 sensor (column) rh: 732 db records, deleted 0 NaN records.

Collected 731 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 06 2017 15:02, interval timing 15m:0s.

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

number 731, min=29.35, max=49.46

avg=36.72, std dev= 3.08

R-squared (R^2) with BdP_3f18c330/rh: 0.9471

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

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

6.677e+00, 1.024e+00

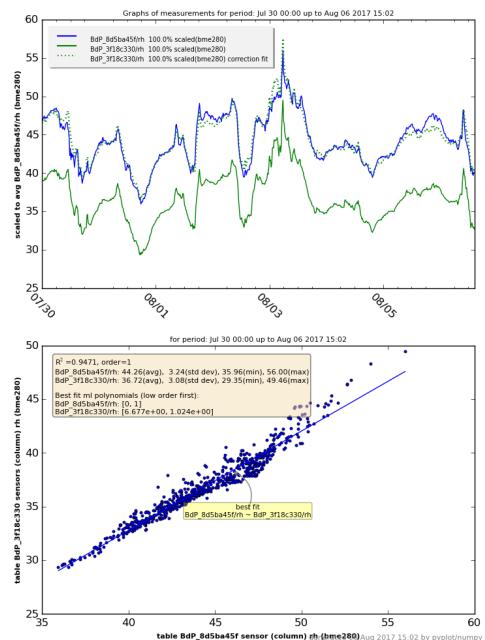
Statistical summary linear regression for BdP_8d5ba45f/rh with [BdP_3f18c330/rh]:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/rh	R-squared:	0.947
Model:	OLS	Adj. R-squared:	0.947
Method:	Least Squares	F-statistic:	1.306e+04
Date:	Sun, 06 Aug 2017	Prob (F-statistic):	0.00
Time:	15:02:27	Log-Likelihood:	-822.35
No. Observations:	731	AIC:	1649.
Df Residuals:	729	BIC:	1658.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_3f18c330/rh	6.6769	0.330	20.233	0.000 6.029 7.325

Omnibus:	26.661	Durbin-Watson:	0.180
Prob(Omnibus):	0.000	Jarque-Bera (JB):	38.299
Skew:	-0.329	Prob(JB):	4.83e-09
Kurtosis:	3.908	Cond. No.	441.



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: Sun Aug 6 15:02:28 CEST 2017

From date 2017-07-30 upto 2017-08-06 15:02

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: 732 db records, deleted 0 NaN records.

Database table BdP_3f18c330 sensor (column) rh: 732 db records, deleted 0 NaN records.

Collected 732 values in sample time frame (15m/0s) for the graph.

Samples period: Jul 30 00:00 up to Aug 06 2017 15:02, interval timing 15m:0s.

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

number 732, min=29.35, max=49.46

avg=36.71, std dev= 3.08

R-squared (R^2) with BdP_3f18c330/rh: 0.9941

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

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

-4.569e+00, 1.182e+00

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

OLS Regression Results

Dep. Variable:	BdP_3f18c330/rh	R-squared:	0.994
Model:	OLS	Adj. R-squared:	0.994
Method:	Least Squares	F-statistic:	1.220e+05
Date:	Sun, 06 Aug 2017	Prob (F-statistic):	0.00
Time:	15:02:29	Log-Likelihood:	-112.02
No. Observations:	732	AIC:	228.0
Df Residuals:	730	BIC:	237.2
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_3f18c330/rh	-4.5687	0.125	-36.642	0.000 -4.814 -4.324

Omnibus:	188.829	Durbin-Watson:	0.420
Prob(Omnibus):	0.000	Jarque-Bera (JB):	596.234
Skew:	-1.232	Prob(JB):	3.38e-130
Kurtosis:	6.671	Cond. No.	440.

