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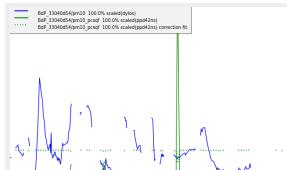
Summary of correlations of sensor kits and sensor modules

Sensorkits: BdP_33040d54 BdP_3f18c330 BdP_8d5ba45f
Report generated on: Mon Sep 18 20:44:20 CEST 2017

R-square and statistical summary

Measurement PM10 correlation key values

Correlation 1 - PM10 - kit BdP_33040d54 sensor type DYLOS with kit BdP_33040d54 sensor type PPD42NS:



nr samples 212, min= 1.00, max=1098.00

avg=34.81, std dev=111.94

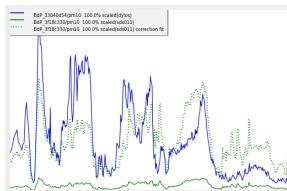
R-squared:

0.0043

Best fit polynomial coefficients:

[1.904e+02, -7.578e-02]

Correlation 2 - PM10 - kit BdP_33040d54 sensor type DYLOS with kit BdP_3f18c330 sensor type SDS011:



nr samples 476, min= 2.92, max=48.58

avg=20.18, std dev=10.28

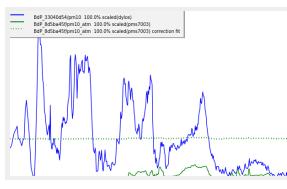
R-squared:

0.4167

Best fit polynomial coefficients:

[9.984e+00, 8.335e+00]

Correlation 3 - PM10 - kit BdP_33040d54 sensor type DYLOS with kit BdP_8d5ba45f sensor type PMS7003:



nr samples 476, min= 0.75, max=76.91

avg=28.24, std dev=19.26

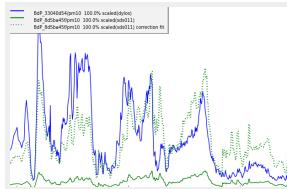
R-squared:

0.0001

Best fit polynomial coefficients:

[1.758e+02, 8.363e-02]

Correlation 4 - PM10 - kit BdP_33040d54 sensor type DYLOS with kit BdP_8d5ba45f sensor type SDS011:



nr samples 476, min= 3.58, max=65.50

avg=25.74, std dev=13.37

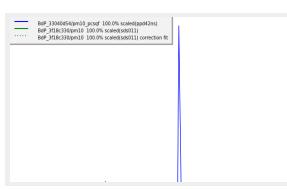
R-squared:

0.4557

Best fit polynomial coefficients:

[5.684e+00, 6.702e+00]

Correlation 5 - PM10 - kit BdP_33040d54 sensor type PPD42NS with kit BdP_3f18c330 sensor type SDS011:



nr samples 107, min= 5.84, max=43.76

avg=19.60, std dev= 9.50

R-squared:

0.0010

Best fit polynomial coefficients:

[3.967e+01, -3.589e-01]

Correlation 6 - PM10 - kit BdP_33040d54 sensor type PPD42NS with kit BdP_8d5ba45f sensor type PMS7003:



nr samples 107, min= 3.68, max=75.60

avg=21.27, std dev=18.77

R-squared:

0.0036

Best fit polynomial coefficients:

[2.543e+01, 3.388e-01]

Correlation 7 - PM10 - kit BdP_33040d54 sensor type PPD42NS with kit BdP_8d5ba45f sensor type SDS011:



nr samples 107, min= 6.48, max=63.72

avg=24.62, std dev=12.29

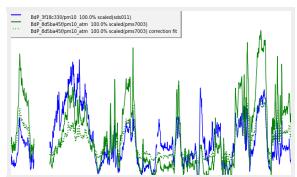
R-squared:

0.0018

Best fit polynomial coefficients:

[4.152e+01, -3.608e-01]

Correlation 8 - PM10 - kit BdP_3f18c330 sensor type SDS011 with kit BdP_8d5ba45f sensor type PMS7003:



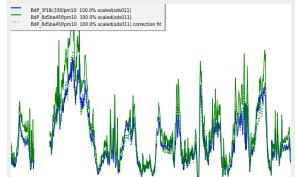
nr samples 1273, min= 0.62, max= 88.44
avg= 27.15, std dev= 18.92

R-squared:

0.4215

Best fit polynomial coefficients:
[1.047e+01, 4.228e-01]

Correlation 9 - PM10 - kit BdP_3f18c330 sensor type SDS011 with kit BdP_8d5ba45f sensor type SDS011:



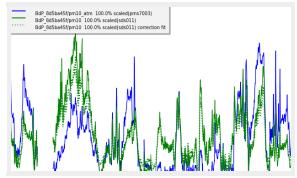
nr samples 1273, min= 3.25, max= 83.89
avg= 27.90, std dev= 16.02

R-squared:

0.9467

Best fit polynomial coefficients:
[1.069e+00, 7.485e-01]

Correlation 10 - PM10 - kit BdP_8d5ba45f sensor type PMS7003 with kit BdP_8d5ba45f sensor type SDS011:



nr samples 1275, min= 3.43, max= 87.12
avg= 27.89, std dev= 16.01

R-squared:

0.3711

Best fit polynomial coefficients:
[7.005e+00, 7.218e-01]

Measurement PM2.5 correlation key values

Correlation 11 - PM2.5 - kit BdP_33040d54 sensor type DYLOS with kit BdP_33040d54 sensor type PPD42NS:



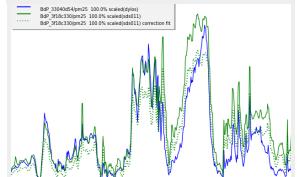
nr samples 472, min= 206.36, max= 704.36
avg= 296.63, std dev= 63.61

R-squared:

0.0000

Best fit polynomial coefficients:
[2.158e+03, 2.836e-02]

Correlation 12 - PM2.5 - kit BdP_33040d54 sensor type DYLOS with kit BdP_3f18c330 sensor type SDS011:



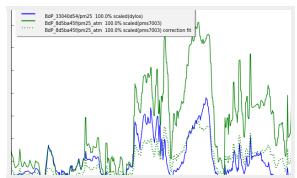
nr samples 476, min= 340.92, max= 8112.25
avg= 2858.58, std dev= 1982.87

R-squared:

0.8316

Best fit polynomial coefficients:
[-1.327e+02, 8.002e-01]

Correlation 13 - PM2.5 - kit BdP_33040d54 sensor type DYLOS with kit BdP_8d5ba45f sensor type PMS7003:



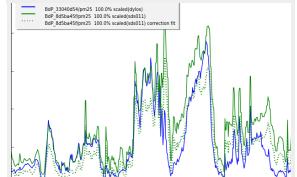
nr samples 476, min= 134.83, max= 14231.73
avg= 5255.88, std dev= 3708.16

R-squared:

0.6123

Best fit polynomial coefficients:
[2.248e+02, 3.672e-01]

Correlation 14 - PM2.5 - kit BdP_33040d54 sensor type DYLOS with kit BdP_8d5ba45f sensor type SDS011:



nr samples 476, min= 559.55, max= 9082.17
avg= 3174.21, std dev= 1971.07

R-squared:

0.7657

Best fit polynomial coefficients:
[-2.972e+02, 7.724e-01]

Correlation 15 - PM2.5 - kit BdP_33040d54 sensor type PPD42NS with kit BdP_3f18c330 sensor type SDS011:



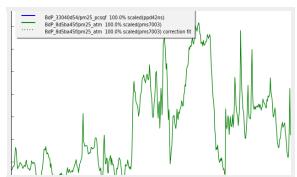
nr samples 501, min= 330.00, max= 8128.29
avg= 2768.92, std dev= 1984.82

R-squared:

0.0063

Best fit polynomial coefficients:
[3.066e+02, -3.315e-03]

Correlation 16 - PM2.5 - kit BdP_33040d54 sensor type PPD42NS with kit BdP_8d5ba45f sensor type PMS7003:



nr samples 501, min=108.43, max=14321.75
avg=5062.45, std dev=3717.10

R-squared:

0.0235

Best fit polynomial coefficients:
[3.147e+02, -3.427e-03]

Correlation 17 - PM2.5 - kit BdP_33040d54 sensor type PPD42NS with kit BdP_8d5ba45f sensor type SDS011:



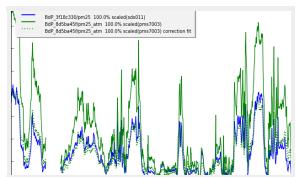
nr samples 501, min=535.86, max=9248.29
avg=3082.42, std dev=1978.18

R-squared:

0.0089

Best fit polynomial coefficients:
[3.096e+02, -3.960e-03]

Correlation 18 - PM2.5 - kit BdP_3f18c330 sensor type SDS011 with kit BdP_8d5ba45f sensor type PMS7003:



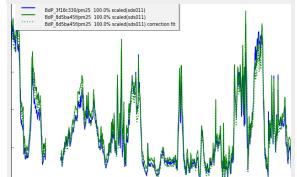
nr samples 1273, min=100.75, max=15916.88
avg=4988.69, std dev=3602.78

R-squared:

0.9263

Best fit polynomial coefficients:
[3.008e+02, 5.005e-01]

Correlation 19 - PM2.5 - kit BdP_3f18c330 sensor type SDS011 with kit BdP_8d5ba45f sensor type SDS011:



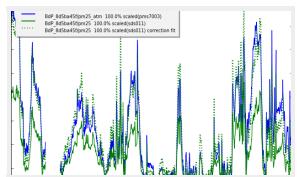
nr samples 1273, min=499.00, max=9222.50
avg=3186.81, std dev=1935.60

R-squared:

0.9592

Best fit polynomial coefficients:
[-2.235e+02, 9.480e-01]

Correlation 20 - PM2.5 - kit BdP_8d5ba45f sensor type PMS7003 with kit BdP_8d5ba45f sensor type SDS011:



nr samples 1275, min=535.86, max=9248.29
avg=3186.46, std dev=1940.68

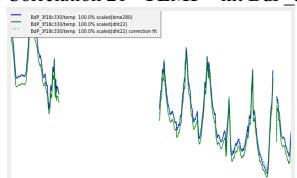
R-squared:

0.9378

Best fit polynomial coefficients:
[-7.559e+02, 1.802e+00]

Measurement TEMP correlation key values

Correlation 21 - TEMP - kit BdP_3f18c330 sensor type BME280 with kit BdP_3f18c330 sensor type DHT22:



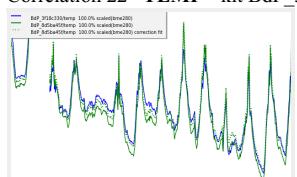
nr samples 874, min= 0.00, max=28.12
avg=18.63, std dev= 3.84

R-squared:

0.9713

Best fit polynomial coefficients:
[7.881e-01, 1.003e+00]

Correlation 22 - TEMP - kit BdP_3f18c330 sensor type BME280 with kit BdP_8d5ba45f sensor type BME280:



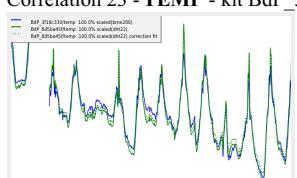
nr samples 1273, min=11.38, max=28.97
avg=18.58, std dev= 3.40

R-squared:

0.9600

Best fit polynomial coefficients:
[1.756e+00, 9.435e-01]

Correlation 23 - TEMP - kit BdP_3f18c330 sensor type BME280 with kit BdP_8d5ba45f sensor type DHT22:



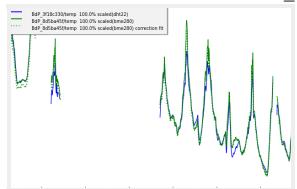
nr samples 1275, min= 0.00, max=29.17
avg=18.97, std dev= 3.38

R-squared:

0.9160

Best fit polynomial coefficients:
[1.684e+00, 9.279e-01]

Correlation 24 - TEMP - kit BdP_3f18c330 sensor type **DHT22** with kit BdP_8d5ba45f sensor type **BME280**:



nr samples 805, min=11.39, max=28.67

avg=18.62, std dev= 3.96

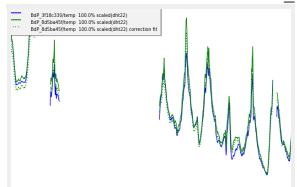
R-squared:

0.9440

Best fit polynomial coefficients:

[1.071e+00, 9.257e-01]

Correlation 25 - TEMP - kit BdP_3f18c330 sensor type **DHT22** with kit BdP_8d5ba45f sensor type **DHT22**:



nr samples 806, min= 0.00, max=28.98

avg=18.95, std dev= 3.94

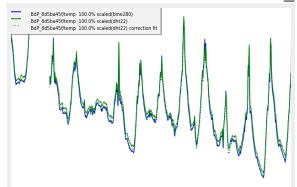
R-squared:

0.8955

Best fit polynomial coefficients:

[1.109e+00, 9.076e-01]

Correlation 26 - TEMP - kit BdP_8d5ba45f sensor type **BME280** with kit BdP_8d5ba45f sensor type **DHT22**:



nr samples 1275, min=11.86, max=29.11

avg=18.99, std dev= 3.34

R-squared:

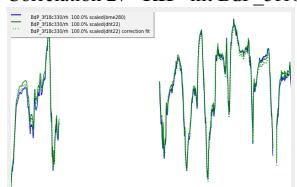
0.9933

Best fit polynomial coefficients:

[-6.737e-01, 1.014e+00]

Measurement RH correlation key values

Correlation 27 - RH - kit BdP_3f18c330 sensor type **BME280** with kit BdP_3f18c330 sensor type **DHT22**:



nr samples 874, min= 0.00, max=75.25

avg=57.73, std dev= 9.46

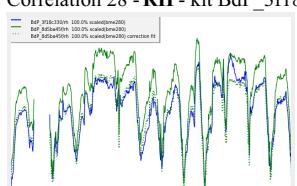
R-squared:

0.9486

Best fit polynomial coefficients:

[-5.124e-01, 9.923e-01]

Correlation 28 - RH - kit BdP_3f18c330 sensor type **BME280** with kit BdP_8d5ba45f sensor type **BME280**:



nr samples 1273, min=34.39, max=80.56

avg=63.15, std dev=10.26

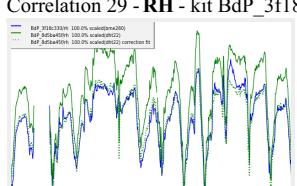
R-squared:

0.9505

Best fit polynomial coefficients:

[2.910e+00, 8.584e-01]

Correlation 29 - RH - kit BdP_3f18c330 sensor type **BME280** with kit BdP_8d5ba45f sensor type **DHT22**:



nr samples 1275, min= 0.00, max=84.86

avg=65.00, std dev=11.04

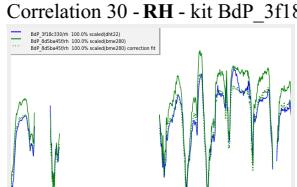
R-squared:

0.9332

Best fit polynomial coefficients:

[5.767e+00, 7.900e-01]

Correlation 30 - RH - kit BdP_3f18c330 sensor type **DHT22** with kit BdP_8d5ba45f sensor type **BME280**:



nr samples 805, min=33.72, max=80.46

avg=61.76, std dev=10.79

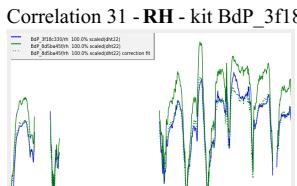
R-squared:

0.9085

Best fit polynomial coefficients:

[4.842e+00, 8.508e-01]

Correlation 31 - RH - kit BdP_3f18c330 sensor type **DHT22** with kit BdP_8d5ba45f sensor type **DHT22**:



nr samples 806, min= 0.00, max=84.85

avg=63.59, std dev=11.64

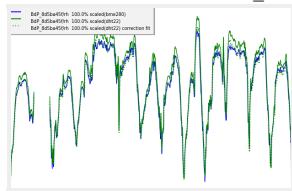
R-squared:

0.8885

Best fit polynomial coefficients:

[7.834e+00, 7.792e-01]

Correlation 32 - **RH** - kit BdP_8d5ba45f sensor type **BME280** with kit BdP_8d5ba45f sensor type **DHT22**:



nr samples 1275, min=32.41, max=84.92

avg=65.04, std dev=10.89

R-squared:

0.9926

Best fit polynomial coefficients:

[2.116e+00, 9.382e-01]

Measurement PHA correlation key values

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

nr samples 1273, min=99237.40, max=101598.51

avg=100506.19, std dev=710.81

R-squared:

0.9999

Best fit polynomial coefficients:

[-4.014e+02, 1.004e+00]

Sensor dylos@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: Mon Sep 18 20:44:11 CEST 2017

From date 2017-09-04 upto 2017-09-18 00:00

Origin of measurement time serie data from InFluxDB host: localhost

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

General statistical information for the measurements graphs

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

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

Auto interval samples is (re)set to 1420 (minimal- 50% -maximal)

Database table BdP_33040d54 sensor (column) pm10: 476 db records, deleted 0 NaN records.

Auto interval samples is (re)set to 2945 (avg+2*stddev)

Database table BdP_33040d54 sensor (column) pm10_pcsqf: 94 db records, deleted 0 NaN records.

Collected 212 values in sample time frame (49m/5s) for the graph. Skipped 264 db records, could not find any value(s) in same sample interval.

Samples period: Sep 04 00:00 up to Sep 18 2017 00:00, interval timing 49m:5s.

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

number 212, min= 1.00, max=1098.00

avg=34.81, std dev=111.94

R-squared (R^2) with BdP_33040d54/pm10_pcsqf: 0.0043

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

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

1.904e+02, -7.578e-02

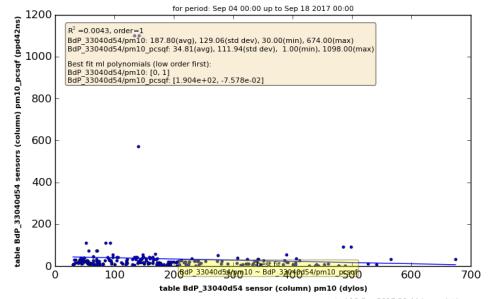
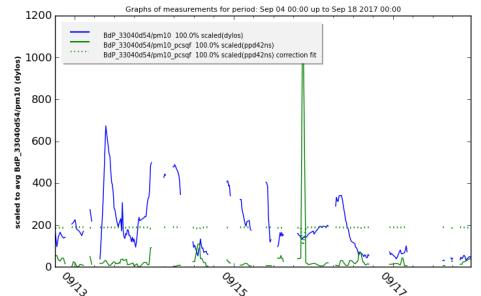
Statistical summary linear regression for BdP_33040d54/pm10 with [BdP_33040d54/pm10_pcsqf]:

OLS Regression Results

Dep. Variable:	BdP_33040d54/pm10	R-squared:	0.004
Model:	OLS	Adj. R-squared:	-0.000
Method:	Least Squares	F-statistic:	0.9112
Date:	Mon, 18 Sep 2017	Prob (F-statistic):	0.341
Time:	20:44:17	Log-Likelihood:	-1330.7
No. Observations:	212	AIC:	2665.
Df Residuals:	210	BIC:	2672.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm10_pcsqf	190.4374	9.307	20.462	0.000 172.091 208.784

Omnibus:	34.639	Durbin-Watson:	0.173
Prob(Omnibus):	0.000	Jarque-Bera (JB):	45.972
Skew:	1.083	Prob(JB):	1.04e-10
Kurtosis:	3.719	Cond. No.	123.



Sensor dylos@BdP_33040d54 with sensor sds011@BdP_3f18c330

correlation report for pm10 (raw) measurements

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

Date of correlation report: Mon Sep 18 20:44:20 CEST 2017

From date 2017-09-04 upto 2017-09-18 00:00

Origin of measurement time serie data from InFluxDB host: localhost

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

General statistical information for the measurements graphs

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

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

Auto interval samples is (re)set to 1420 (minimal- 50% -maximal)

Database table BdP_33040d54 sensor (column) pm10: 476 db records, deleted 0 NaN records.

Auto interval samples is (re)set to 1518 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) pm10: 851 db records, deleted 0 NaN records.

Collected 476 values in sample time frame (25m/18s) for the graph.

Samples period: Sep 04 00:00 up to Sep 18 2017 00:00, interval timing 25m:18s.

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

number 476, min= 2.92, max=48.58

avg=20.18, std dev=10.28

R-squared (R^2) with BdP_3f18c330/pm10: 0.4167

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

BdP_33040d54/pm10 (sds011)-> best fit coefficients:

9.984e+00, 8.335e+00

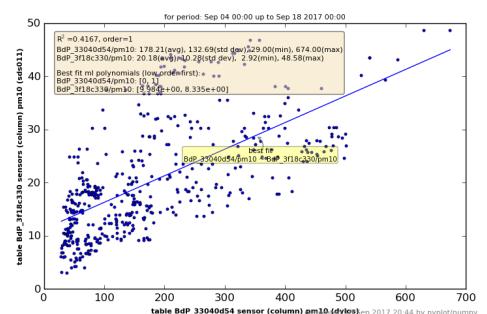
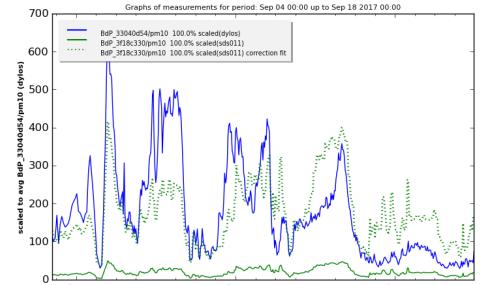
Statistical summary linear regression for BdP_33040d54/pm10 with ['BdP_3f18c330/pm10']:

OLS Regression Results

Dep. Variable:	BdP_33040d54/pm10	R-squared:	0.417
Model:	OLS	Adj. R-squared:	0.416
Method:	Least Squares	F-statistic:	338.7
Date:	Mon, 18 Sep 2017	Prob (F-statistic):	1.83e-57
Time:	20:44:21	Log-Likelihood:	-2873.8
No. Observations:	476	AIC:	5752.
Df Residuals:	474	BIC:	5760.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_3f18c330/pm10	9.9836	10.258	0.973	0.331 -10.173 30.141

Omnibus:	33.516	Durbin-Watson:	0.086
Prob(Omnibus):	0.000	Jarque-Bera (JB):	39.329
Skew:	0.704	Prob(JB):	2.88e-09
Kurtosis:	3.016	Cond. No.	50.0



Sensor dylos@BdP_33040d54 with sensor pms7003@BdP_8d5ba45f

correlation report for pm10 (raw) measurements

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

Date of correlation report: Mon Sep 18 20:44:22 CEST 2017

From date 2017-09-04 upto 2017-09-18 00:00

Origin of measurement time serie data from InFluxDB host: localhost

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

General statistical information for the measurements graphs

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

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

Auto interval samples is (re)set to 1420 (minimal- 50% -maximal)

Database table BdP_33040d54 sensor (column) pm10: 476 db records, deleted 0 NaN records.

Database table BdP_8d5ba45f sensor (column) pm10_atm: 809 db records, deleted 0 NaN records.

Collected 476 values in sample time frame (23m/40s) for the graph.

Samples period: Sep 04 00:00 up to Sep 18 2017 00:00, interval timing 23m:40s.

Data from table/sheet BdP_8d5ba45f, sensor (column) pm10_atm:

number 476, min= 0.75, max=76.91

avg=28.24, std dev=19.26

R-squared (R^2) with BdP_8d5ba45f/pm10_atm: 0.0001

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

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

1.758e+02, 8.363e-02

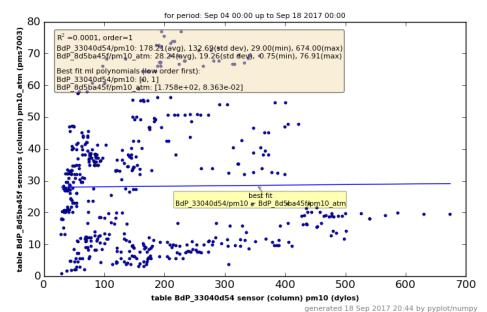
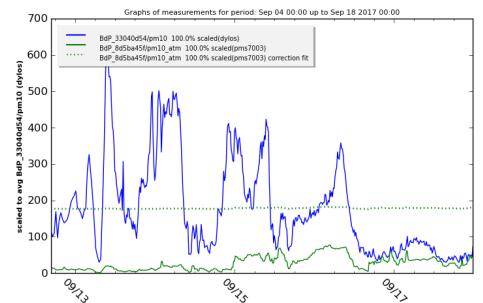
Statistical summary linear regression for BdP_33040d54/pm10 with [BdP_8d5ba45f/pm10_atm]:

OLS Regression Results

Dep. Variable:	BdP_33040d54/pm10	R-squared:	0.000
Model:	OLS	Adj. R-squared:	-0.002
Method:	Least Squares	F-statistic:	0.06983
Date:	Mon, 18 Sep 2017	Prob (F-statistic):	0.792
Time:	20:44:23	Log-Likelihood:	-3002.1
No. Observations:	476	AIC:	6008.
Df Residuals:	474	BIC:	6016.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_8d5ba45f/pm10_atm	175.8485	10.817	16.257	0.000 154.594 197.103

Omnibus:	68.768	Durbin-Watson:	0.057
Prob(Omnibus):	0.000	Jarque-Bera (JB):	95.605
Skew:	1.075	Prob(JB):	1.74e-21
Kurtosis:	3.442	Cond. No.	60.7



Sensor dylos@BdP_33040d54 with sensor sds011@BdP_8d5ba45f

correlation report for pm10 (raw) measurements

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

Date of correlation report: Mon Sep 18 20:44:24 CEST 2017

From date 2017-09-04 upto 2017-09-18 00:00

Origin of measurement time serie data from InFluxDB host: localhost

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

General statistical information for the measurements graphs

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

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

Auto interval samples is (re)set to 1420 (minimal- 50% -maximal)

Database table BdP_33040d54 sensor (column) pm10: 476 db records, deleted 0 NaN records.

Database table BdP_8d5ba45f sensor (column) pm10: 809 db records, deleted 0 NaN records.

Collected 476 values in sample time frame (23m/40s) for the graph.

Samples period: Sep 04 00:00 up to Sep 18 2017 00:00, interval timing 23m:40s.

Data from table/sheet BdP_8d5ba45f, sensor (column) pm10:

number 476, min= 3.58, max=65.50

avg=25.74, std dev=13.37

R-squared (R^2) with BdP_8d5ba45f/pm10: 0.4557

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

BdP_33040d54/pm10 (sds011)-> best fit coefficients:

5.684e+00, 6.702e+00

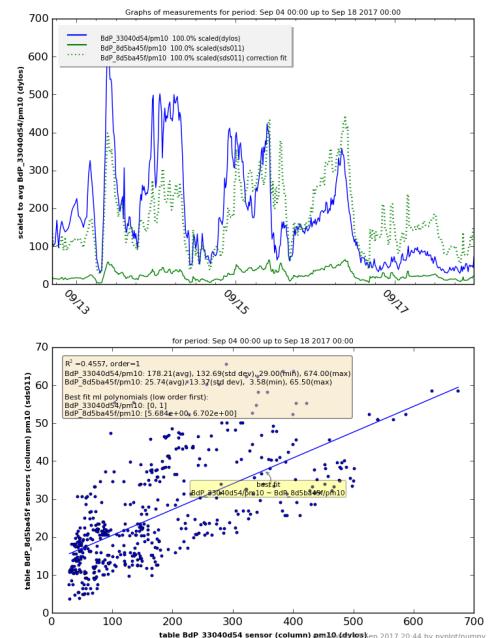
Statistical summary linear regression for BdP_33040d54/pm10 with ['BdP_8d5ba45f/pm10']:

OLS Regression Results

Dep. Variable:	BdP_33040d54/pm10	R-squared:	0.456
Model:	OLS	Adj. R-squared:	0.455
Method:	Least Squares	F-statistic:	396.8
Date:	Mon, 18 Sep 2017	Prob (F-statistic):	1.36e-64
Time:	20:44:25	Log-Likelihood:	-2857.4
No. Observations:	476	AIC:	5719.
Df Residuals:	474	BIC:	5727.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_8d5ba45f/pm10	5.6838	9.759	0.582	0.561 -13.492 24.860

Omnibus:	36.023	Durbin-Watson:	0.099
Prob(Omnibus):	0.000	Jarque-Bera (JB):	42.182
Skew:	0.717	Prob(JB):	6.92e-10
Kurtosis:	3.263	Cond. No.	63.0



Sensor ppd42ns@BdP_33040d54 with sensor sds011@BdP_3f18c330

correlation report for pm10 (raw) measurements

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

Date of correlation report: Mon Sep 18 20:44:26 CEST 2017

From date 2017-09-04 upto 2017-09-18 00:00

Origin of measurement time serie data from InFluxDB host: localhost

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

General statistical information for the measurements graphs

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

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

Auto interval samples is (re)set to 3005 (avg+2*stddev)

Database table BdP_33040d54 sensor (column) pm10_pcsqf: 107 db records, deleted 0 NaN records.

Database table BdP_3f18c330 sensor (column) pm10: 404 db records, deleted 0 NaN records.

Collected 107 values in sample time frame (50m/5s) for the graph.

Samples period: Sep 04 00:00 up to Sep 18 2017 00:00, interval timing 50m:5s.

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

number 107, min= 5.84, max=43.76

avg=19.60, std dev= 9.50

R-squared (R^2) with BdP_3f18c330/pm10: 0.0010

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

BdP_33040d54/pm10_pcsqf (sds011)-> best fit coefficients:

3.967e+01, -3.589e-01

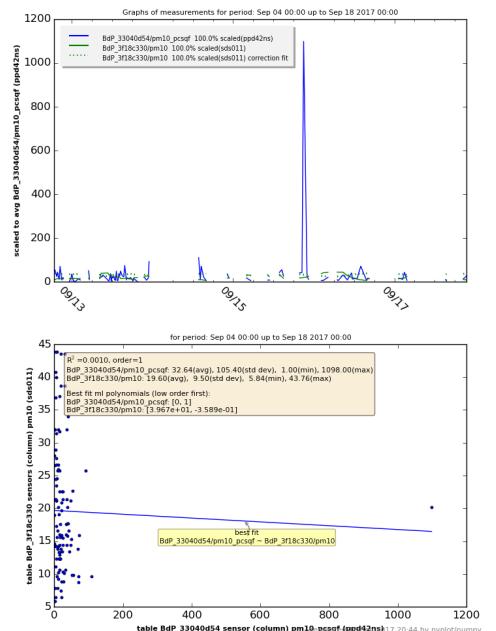
Statistical summary linear regression for BdP_33040d54/pm10_pcsqf with ['BdP_3f18c330/pm10']:

OLS Regression Results

Dep. Variable:	BdP_33040d54/pm10_pcsqf	R-squared:	0.001
Model:	OLS	Adj. R-squared:	-0.008
Method:	Least Squares	F-statistic:	0.1099
Date:	Mon, 18 Sep 2017	Prob (F-statistic):	0.741
Time:	20:44:27	Log-Likelihood:	-650.15
No. Observations:	107	AIC:	1304.
Df Residuals:	105	BIC:	1310.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_3f18c330/pm10	39.6688	23.572	1.683	0.095 -7.070 86.408

Omnibus:	224.690	Durbin-Watson:	1.987
Prob(Omnibus):	0.000	Jarque-Bera (JB):	41783.738
Skew:	9.673	Prob(JB):	0.00
Kurtosis:	97.856	Cond. No.	50.0



Sensor ppd42ns@BdP_33040d54 with sensor pms7003@BdP_8d5ba45f

correlation report for pm10 (raw) measurements

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

Date of correlation report: Mon Sep 18 20:44:28 CEST 2017

From date 2017-09-04 upto 2017-09-18 00:00

Origin of measurement time serie data from InFluxDB host: localhost

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

General statistical information for the measurements graphs

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

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

Auto interval samples is (re)set to 3005 (avg+2*stddev)

Database table BdP_33040d54 sensor (column) pm10_pcsqf: 107 db records, deleted 0 NaN records.

Database table BdP_8d5ba45f sensor (column) pm10_atm: 384 db records, deleted 0 NaN records.

Collected 107 values in sample time frame (50m/5s) for the graph.

Samples period: Sep 04 00:00 up to Sep 18 2017 00:00, interval timing 50m:5s.

Data from table/sheet BdP_8d5ba45f, sensor (column) pm10_atm:

number 107, min= 3.68, max=75.60

avg=21.27, std dev=18.77

R-squared (R^2) with BdP_8d5ba45f/pm10_atm: 0.0036

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

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

2.543e+01, 3.388e-01

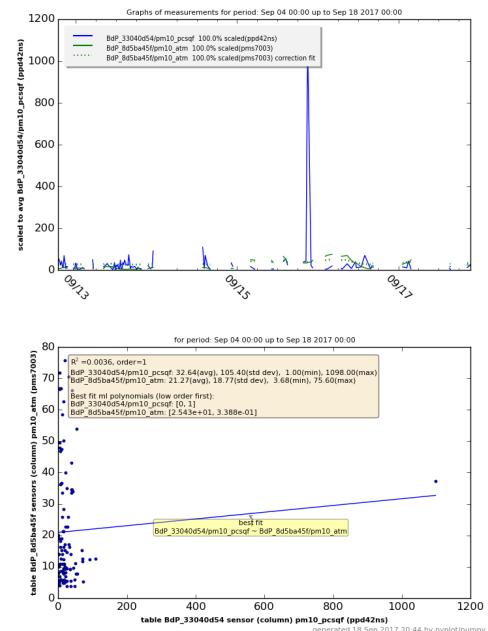
Statistical summary linear regression for BdP_33040d54/pm10_pcsqf with ['BdP_8d5ba45f/pm10_atm']:

OLS Regression Results

Dep. Variable:	BdP_33040d54/pm10_pcsqf	R-squared:	0.004
Model:	OLS	Adj. R-squared:	-0.006
Method:	Least Squares	F-statistic:	0.3835
Date:	Mon, 18 Sep 2017	Prob (F-statistic):	0.537
Time:	20:44:29	Log-Likelihood:	-650.01
No. Observations:	107	AIC:	1304.
Df Residuals:	105	BIC:	1309.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_8d5ba45f/pm10_atm	25.4293	15.518	1.639	0.104 -5.340 56.198

Omnibus:	223.259	Durbin-Watson:	1.990
Prob(Omnibus):	0.000	Jarque-Bera (JB):	40458.564
Skew:	9.559	Prob(JB):	0.00
Kurtosis:	96.324	Cond. No.	42.9



Sensor ppd42ns@BdP_33040d54 with sensor sds011@BdP_8d5ba45f

correlation report for pm10 (raw) measurements

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

Date of correlation report: Mon Sep 18 20:44:31 CEST 2017

From date 2017-09-04 upto 2017-09-18 00:00

Origin of measurement time serie data from InFluxDB host: localhost

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

General statistical information for the measurements graphs

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

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

Auto interval samples is (re)set to 3005 (avg+2*stddev)

Database table BdP_33040d54 sensor (column) pm10_pcsqf: 107 db records, deleted 0 NaN records.

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

Collected 107 values in sample time frame (50m/5s) for the graph.

Samples period: Sep 04 00:00 up to Sep 18 2017 00:00, interval timing 50m:5s.

Data from table/sheet BdP_8d5ba45f, sensor (column) pm10:

number 107, min= 6.48, max=63.72

avg=24.62, std dev=12.29

R-squared (R^2) with BdP_8d5ba45f/pm10: 0.0018

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

BdP_33040d54/pm10_pcsqf (sds011)-> best fit coefficients:

4.152e+01, -3.608e-01

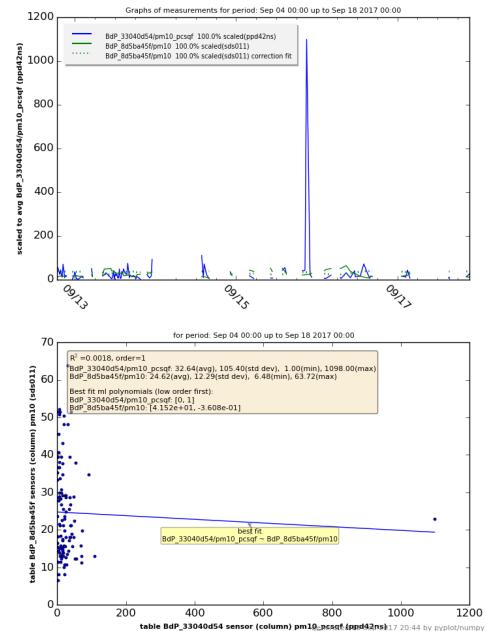
Statistical summary linear regression for BdP_33040d54/pm10_pcsqf with ['BdP_8d5ba45f/pm10']:

OLS Regression Results

Dep. Variable:	BdP_33040d54/pm10_pcsqf	R-squared:	0.002
Model:	OLS	Adj. R-squared:	-0.008
Method:	Least Squares	F-statistic:	0.1863
Date:	Mon, 18 Sep 2017	Prob (F-statistic):	0.667
Time:	20:44:31	Log-Likelihood:	-650.11
No. Observations:	107	AIC:	1304.
Df Residuals:	105	BIC:	1310.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_8d5ba45f/pm10	41.5179	23.003	1.805	0.074 -4.093 87.128

Omnibus:	224.543	Durbin-Watson:	1.989
Prob(Omnibus):	0.000	Jarque-Bera (JB):	41646.993
Skew:	9.662	Prob(JB):	0.00
Kurtosis:	97.699	Cond. No.	61.7



Sensor sds011@BdP_3f18c330 with sensor pms7003@BdP_8d5ba45f

correlation report for pm10 (raw) measurements

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

Date of correlation report: Mon Sep 18 20:44:33 CEST 2017

From date 2017-09-04 upto 2017-09-18 00:00

Origin of measurement time serie data from InFluxDB host: localhost

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

General statistical information for the measurements graphs

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

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

Auto interval samples is (re)set to 999 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) pm10: 1342 db records, deleted 0 NaN records.

Database table BdP_8d5ba45f sensor (column) pm10_atm: 1150 db records, deleted 0 NaN records.

Collected 1273 values in sample time frame (16m/39s) for the graph. Skipped 69 db records, could not find any value(s) in same sample interval.

Samples period: Sep 04 00:00 up to Sep 18 2017 00:00, interval timing 16m:39s.

Data from table/sheet BdP_8d5ba45f, sensor (column) pm10_atm:

number 1273, min= 0.62, max=88.44

avg=27.15, std dev=18.92

R-squared (R^2) with BdP_8d5ba45f/pm10_atm: 0.4215

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

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

1.047e+01, 4.228e-01

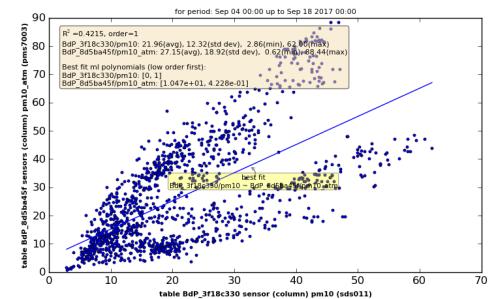
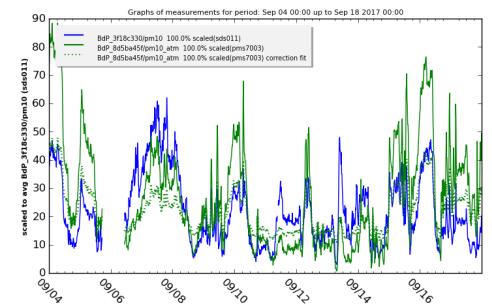
Statistical summary linear regression for BdP_3f18c330/pm10 with ['BdP_8d5ba45f/pm10_atm']:

OLS Regression Results

Dep. Variable:	BdP_3f18c330/pm10	R-squared:	0.422
Model:	OLS	Adj. R-squared:	0.421
Method:	Least Squares	F-statistic:	926.1
Date:	Mon, 18 Sep 2017	Prob (F-statistic):	2.98e-153
Time:	20:44:33	Log-Likelihood:	-4654.8
No. Observations:	1273	AIC:	9314.
Df Residuals:	1271	BIC:	9324.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_8d5ba45f/pm10_atm	10.4748	0.460	22.781	0.000 9.573 11.377

Omnibus:	224.817	Durbin-Watson:	0.061
Prob(Omnibus):	0.000	Jarque-Bera (JB):	353.650
Skew:	1.215	Prob(JB):	1.61e-77
Kurtosis:	3.874	Cond. No.	57.9



Sensor sds011@BdP_3f18c330 with sensor sds011@BdP_8d5ba45f

correlation report for pm10 (raw) measurements

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

Date of correlation report: Mon Sep 18 20:44:35 CEST 2017

From date 2017-09-04 upto 2017-09-18 00:00

Origin of measurement time serie data from InFluxDB host: localhost

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

General statistical information for the measurements graphs

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

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

Auto interval samples is (re)set to 999 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) pm10: 1342 db records, deleted 0 NaN records.

Database table BdP_8d5ba45f sensor (column) pm10: 1149 db records, deleted 0 NaN records.

Collected 1273 values in sample time frame (16m/39s) for the graph. Skipped 69 db records, could not find any value(s) in same sample interval.

Samples period: Sep 04 00:00 up to Sep 18 2017 00:00, interval timing 16m:39s.

Data from table/sheet BdP_8d5ba45f, sensor (column) pm10:

number 1273, min= 3.25, max=83.89

avg=27.90, std dev=16.02

R-squared (R^2) with BdP_8d5ba45f/pm10: 0.9467

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

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

1.069e+00, 7.485e-01

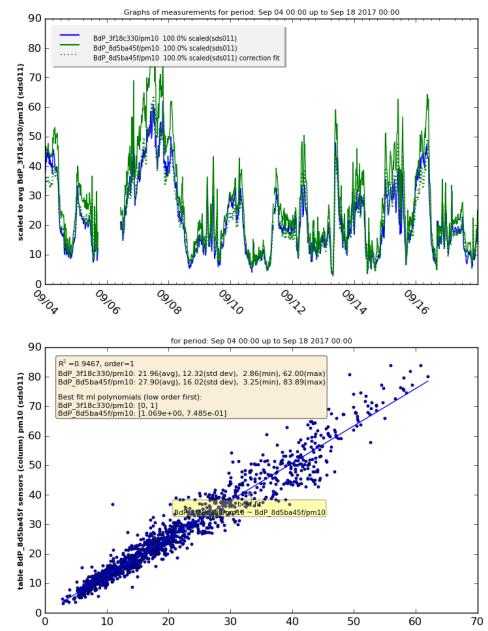
Statistical summary linear regression for BdP_3f18c330/pm10 with ['BdP_8d5ba45f/pm10']:

OLS Regression Results

Dep. Variable:	BdP_3f18c330/pm10	R-squared:	0.947
Model:	OLS	Adj. R-squared:	0.947
Method:	Least Squares	F-statistic:	2.257e+04
Date:	Mon, 18 Sep 2017	Prob (F-statistic):	0.00
Time:	20:44:35	Log-Likelihood:	-3137.3
No. Observations:	1273	AIC:	6279.
Df Residuals:	1271	BIC:	6289.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_8d5ba45f/pm10	1.0694	0.160	6.671	0.000 0.755 1.384

Omnibus:	96.539	Durbin-Watson:	0.799
Prob(Omnibus):	0.000	Jarque-Bera (JB):	450.204
Skew:	0.151	Prob(JB):	1.74e-98
Kurtosis:	5.898	Cond. No.	64.7



Sensor pms7003@BdP_8d5ba45f with sensor sds011@BdP_8d5ba45f

correlation report for pm10 (raw) measurements

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

Date of correlation report: Mon Sep 18 20:44:37 CEST 2017

From date 2017-09-04 upto 2017-09-18 00:00

Origin of measurement time serie data from InFluxDB host: localhost

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

General statistical information for the measurements graphs

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

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

Database table BdP_8d5ba45f sensor (column) pm10_atm: 1275 db records, deleted 0 NaN records.

Database table BdP_8d5ba45f sensor (column) pm10: 1275 db records, deleted 0 NaN records.

Collected 1275 values in sample time frame (15m/0s) for the graph.

Samples period: Sep 04 00:00 up to Sep 18 2017 00:00, interval timing 15m:0s.

Data from table/sheet BdP_8d5ba45f, sensor (column) pm10:

number 1275, min= 3.43, max=87.12

avg=27.89, std dev=16.01

R-squared (R^2) with BdP_8d5ba45f/pm10: 0.3711

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

BdP_8d5ba45f/pm10_atm (sds011)-> best fit coefficients:

7.005e+00, 7.218e-01

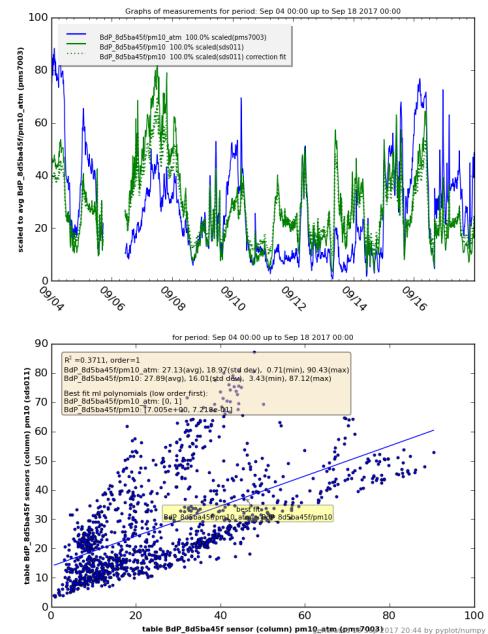
Statistical summary linear regression for BdP_8d5ba45f/pm10_atm with ['BdP_8d5ba45f/pm10']:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/pm10_atm	R-squared:	0.371
Model:	OLS	Adj. R-squared:	0.371
Method:	Least Squares	F-statistic:	751.3
Date:	Mon, 18 Sep 2017	Prob (F-statistic):	2.24e-130
Time:	20:44:38	Log-Likelihood:	-5265.3
No. Observations:	1275	AIC:	1.053e+04
Df Residuals:	1273	BIC:	1.054e+04
Df Model:	1		

coef std err t P>|t| [95.0% Conf. Int.]
BdP_8d5ba45f/pm10 7.0052 0.847 -8.273 0.000 5.344 8.666

Omnibus: 84.415 Durbin-Watson: 0.041
Prob(Omnibus): 0.000 Jarque-Bera (JB): 100.786
Skew: 0.689 Prob(JB): 1.30e-22
Kurtosis: 3.016 Cond. No. 64.6



Sensor dylos@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: Mon Sep 18 20:44:39 CEST 2017

From date 2017-09-04 upto 2017-09-18 00:00

Origin of measurement time serie data from InFluxDB host: localhost

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

General statistical information for the measurements graphs

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

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

Auto interval samples is (re)set to 1420 (minimal- 50% -maximal)

Database table BdP_33040d54 sensor (column) pm25: 476 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm25_pcsqf: 318 db records, deleted 0 NaN records.

Collected 472 values in sample time frame (23m/40s) for the graph. Skipped 4 db records, could not find any value(s) in same sample interval.

Samples period: Sep 04 00:00 up to Sep 18 2017 00:00, interval timing 23m:40s.

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

number 472, min=206.36, max=704.36

avg=296.63, std dev=63.61

R-squared (R^2) with BdP_33040d54/pm25_pcsqf: 0.0000

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

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

2.158e+03, 2.836e-02

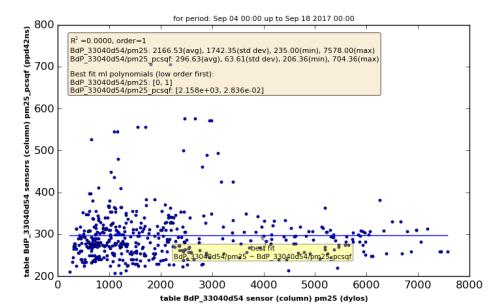
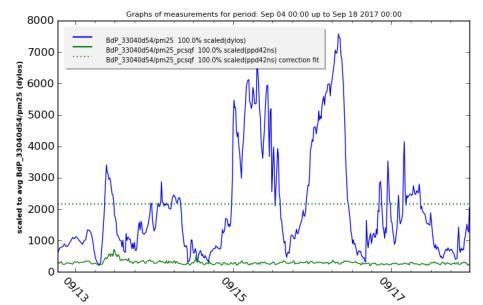
Statistical summary linear regression for BdP_33040d54/pm25 with [BdP_33040d54/pm25_pcsqf]:

OLS Regression Results

Dep. Variable:	BdP_33040d54/pm25	R-squared:	0.000
Model:	OLS	Adj. R-squared:	-0.002
Method:	Least Squares	F-statistic:	0.0005039
Date:	Mon, 18 Sep 2017	Prob (F-statistic):	0.982
Time:	20:44:40	Log-Likelihood:	-4192.3
No. Observations:	472	AIC:	8389.
Df Residuals:	470	BIC:	8397.
Df Model:	1		

	coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm25_pcsqf	2158.1158	383.325	5.630	0.000	1404.874 2911.358

Omnibus:	85.381	Durbin-Watson:	0.046
Prob(Omnibus):	0.000	Jarque-Bera (JB):	129.330
Skew:	1.252	Prob(JB):	8.25e-29
Kurtosis:	3.552	Cond. No.	1.45e+03



Sensor dylos@BdP_33040d54 with sensor sds011@BdP_3f18c330

correlation report for pm25 (raw) measurements

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

Date of correlation report: Mon Sep 18 20:44:41 CEST 2017

From date 2017-09-04 upto 2017-09-18 00:00

Origin of measurement time serie data from InFluxDB host: localhost

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

General statistical information for the measurements graphs

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

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

Auto interval samples is (re)set to 1420 (minimal- 50% -maximal)

Database table BdP_33040d54 sensor (column) pm25: 476 db records, deleted 0 NaN records.

Auto interval samples is (re)set to 1518 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) pm25: 851 db records, deleted 0 NaN records.

Collected 476 values in sample time frame (25m/18s) for the graph.

Samples period: Sep 04 00:00 up to Sep 18 2017 00:00, interval timing 25m:18s.

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

number 476, min=340.92, max=8112.25

avg=2858.58, std dev=1982.87

R-squared (R^2) with BdP_3f18c330/pm25: 0.8316

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

BdP_33040d54/pm25 (sds011)-> best fit coefficients:

-1.327e+02, 8.002e-01

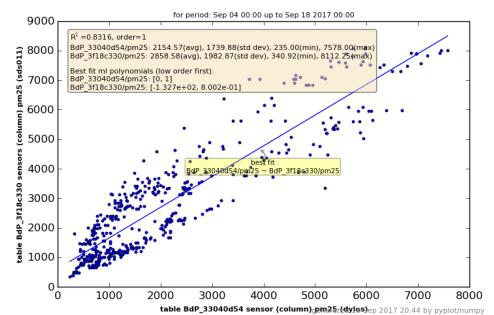
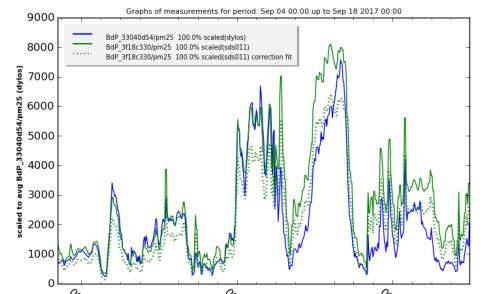
Statistical summary linear regression for BdP_33040d54/pm25 with ['BdP_3f18c330/pm25']:

OLS Regression Results

Dep. Variable:	BdP_33040d54/pm25	R-squared:	0.832
Model:	OLS	Adj. R-squared:	0.831
Method:	Least Squares	F-statistic:	2340.
Date:	Mon, 18 Sep 2017	Prob (F-statistic):	1.83e-185
Time:	20:44:42	Log-Likelihood:	-3803.2
No. Observations:	476	AIC:	7610.
Df Residuals:	474	BIC:	7619.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_3f18c330/pm25	-132.7440	57.543	-2.307	0.021
	57.543	-2.307	0.021	-245.814
				-19.674

Omnibus:	6.608	Durbin-Watson:	0.208
Prob(Omnibus):	0.037	Jarque-Bera (JB):	6.644
Skew:	0.289	Prob(JB):	0.0361
Kurtosis:	2.994	Cond. No.	6.10e+03



Sensor dylos@BdP_33040d54 with sensor pms7003@BdP_8d5ba45f

correlation report for pm25 (raw) measurements

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

Date of correlation report: Mon Sep 18 20:44:43 CEST 2017

From date 2017-09-04 upto 2017-09-18 00:00

Origin of measurement time serie data from InFluxDB host: localhost

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

General statistical information for the measurements graphs

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

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

Auto interval samples is (re)set to 1420 (minimal- 50% -maximal)

Database table BdP_33040d54 sensor (column) pm25: 476 db records, deleted 0 NaN records.

Database table BdP_8d5ba45f sensor (column) pm25_atm: 809 db records, deleted 0 NaN records.

Collected 476 values in sample time frame (23m/40s) for the graph.

Samples period: Sep 04 00:00 up to Sep 18 2017 00:00, interval timing 23m:40s.

Data from table/sheet BdP_8d5ba45f, sensor (column) pm25_atm:

number 476, min=134.83, max=14231.73

avg=5255.88, std dev=3708.16

R-squared (R^2) with BdP_8d5ba45f/pm25_atm: 0.6123

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

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

2.248e+02, 3.672e-01

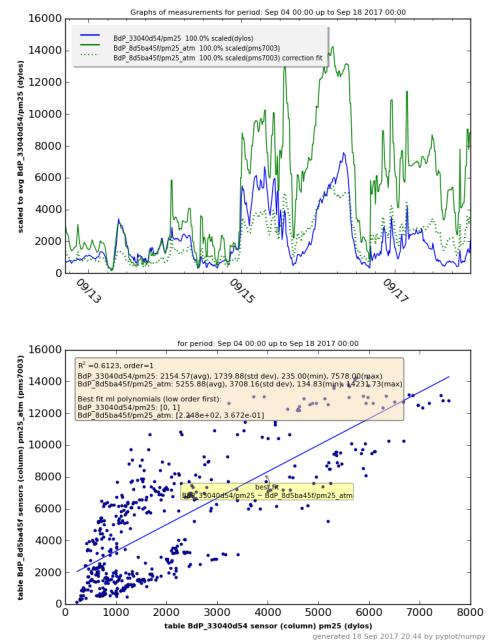
Statistical summary linear regression for BdP_33040d54/pm25 with ['BdP_8d5ba45f/pm25_atm']:

OLS Regression Results

Dep. Variable:	BdP_33040d54/pm25	R-squared:	0.612
Model:	OLS	Adj. R-squared:	0.611
Method:	Least Squares	F-statistic:	748.6
Date:	Mon, 18 Sep 2017	Prob (F-statistic):	1.38e-99
Time:	20:44:44	Log-Likelihood:	-4001.6
No. Observations:	476	AIC:	8007.
Df Residuals:	474	BIC:	8016.
Df Model:	1		

	coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_8d5ba45f/pm25_atm	224.8472	86.313	2.605	0.009	55.243 394.452

Omnibus:	11.561	Durbin-Watson:	0.098
Prob(Omnibus):	0.003	Jarque-Bera (JB):	10.663
Skew:	0.313	Prob(JB):	0.00484
Kurtosis:	2.618	Cond. No.	1.12e+04



Sensor dylos@BdP_33040d54 with sensor sds011@BdP_8d5ba45f

correlation report for pm25 (raw) measurements

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

Date of correlation report: Mon Sep 18 20:44:45 CEST 2017

From date 2017-09-04 upto 2017-09-18 00:00

Origin of measurement time serie data from InFluxDB host: localhost

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

General statistical information for the measurements graphs

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

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

Auto interval samples is (re)set to 1420 (minimal- 50% -maximal)

Database table BdP_33040d54 sensor (column) pm25: 476 db records, deleted 0 NaN records.

Database table BdP_8d5ba45f sensor (column) pm25: 809 db records, deleted 0 NaN records.

Collected 476 values in sample time frame (23m/40s) for the graph.

Samples period: Sep 04 00:00 up to Sep 18 2017 00:00, interval timing 23m:40s.

Data from table/sheet BdP_8d5ba45f, sensor (column) pm25:

number 476, min=559.55, max=9082.17

avg=3174.21, std dev=1971.07

R-squared (R^2) with BdP_8d5ba45f/pm25: 0.7657

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

BdP_33040d54/pm25 (sds011)-> best fit coefficients:

-2.972e+02, 7.724e-01

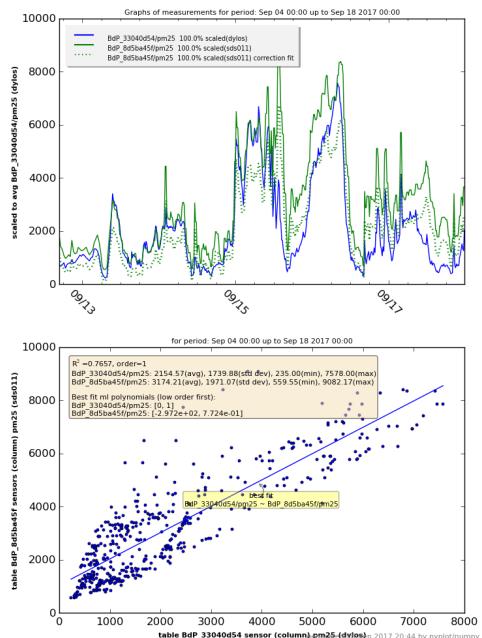
Statistical summary linear regression for BdP_33040d54/pm25 with ['BdP_8d5ba45f/pm25']:

OLS Regression Results

Dep. Variable:	BdP_33040d54/pm25	R-squared:	0.766
Model:	OLS	Adj. R-squared:	0.765
Method:	Least Squares	F-statistic:	1549.
Date:	Mon, 18 Sep 2017	Prob (F-statistic):	1.86e-151
Time:	20:44:46	Log-Likelihood:	-3881.8
No. Observations:	476	AIC:	7768.
Df Residuals:	474	BIC:	7776.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_8d5ba45f/pm25	-297.1740	73.332	-4.052	0.000 -441.269 -153.079

Omnibus:	27.653	Durbin-Watson:	0.182
Prob(Omnibus):	0.000	Jarque-Bera (JB):	41.532
Skew:	-0.440	Prob(JB):	9.58e-10
Kurtosis:	4.148	Cond. No.	7.08e+03



Sensor ppd42ns@BdP_33040d54 with sensor sds011@BdP_3f18c330

correlation report for pm25 (raw) measurements

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

Date of correlation report: Mon Sep 18 20:44:48 CEST 2017

From date 2017-09-04 upto 2017-09-18 00:00

Origin of measurement time serie data from InFluxDB host: localhost

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

General statistical information for the measurements graphs

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

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

Database table BdP_33040d54 sensor (column) pm25_pcsqf: 501 db records, deleted 0 NaN records.

Auto interval samples is (re)set to 999 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) pm25: 1342 db records, deleted 0 NaN records.

Collected 501 values in sample time frame (16m:39s) for the graph.

Samples period: Sep 04 00:00 up to Sep 18 2017 00:00, interval timing 16m:39s.

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

number 501, min=330.00, max=8128.29

avg=2768.92, std dev=1984.82

R-squared (R^2) with BdP_3f18c330/pm25: 0.0063

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

BdP_33040d54/pm25_pcsqf (sds011)-> best fit coefficients:

3.066e+02, -3.315e-03

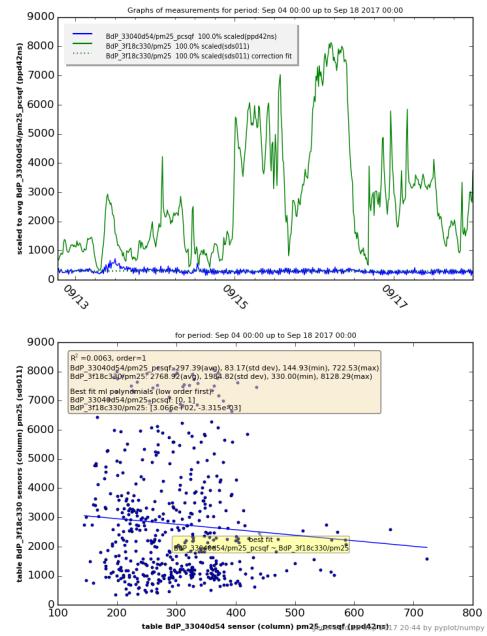
Statistical summary linear regression for BdP_33040d54/pm25_pcsqf with ['BdP_3f18c330/pm25']:

OLS Regression Results

Dep. Variable:	BdP_33040d54/pm25_pcsqf	R-squared:	0.006
Model:	OLS	Adj. R-squared:	0.004
Method:	Least Squares	F-statistic:	3.142
Date:	Mon, 18 Sep 2017	Prob (F-statistic):	0.0769
Time:	20:44:48	Log-Likelihood:	-2924.2
No. Observations:	501	AIC:	5852.
Df Residuals:	499	BIC:	5861.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_3f18c330/pm25	306.5639	6.370	48.124	0.000 294.048 319.080

Omnibus:	87.245	Durbin-Watson:	2.041
Prob(Omnibus):	0.000	Jarque-Bera (JB):	176.057
Skew:	0.961	Prob(JB):	5.88e-39
Kurtosis:	5.178	Cond. No.	5.85e+03



Sensor ppd42ns@BdP_33040d54 with sensor pms7003@BdP_8d5ba45f

correlation report for pm25 (raw) measurements

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

Date of correlation report: Mon Sep 18 20:44:50 CEST 2017

From date 2017-09-04 upto 2017-09-18 00:00

Origin of measurement time serie data from InFluxDB host: localhost

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

General statistical information for the measurements graphs

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

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

Database table BdP_33040d54 sensor (column) pm25_pcsqf: 501 db records, deleted 0 NaN records.

Database table BdP_8d5ba45f sensor (column) pm25_atm: 1275 db records, deleted 0 NaN records.

Collected 501 values in sample time frame (15m/0s) for the graph.

Samples period: Sep 04 00:00 up to Sep 18 2017 00:00, interval timing 15m:0s.

Data from table/sheet BdP_8d5ba45f, sensor (column) pm25_atm:

number 501, min=108.43, max=14321.75

avg=5062.45, std dev=3717.10

R-squared (R^2) with BdP_8d5ba45f/pm25_atm: 0.0235

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

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

3.147e+02, -3.427e-03

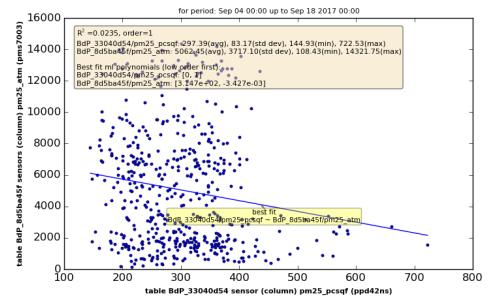
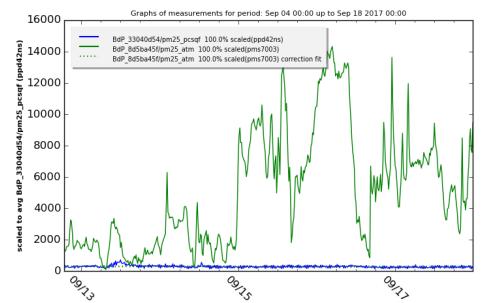
Statistical summary linear regression for BdP_33040d54/pm25_pcsqf with ['BdP_8d5ba45f/pm25_atm']:

OLS Regression Results

Dep. Variable:	BdP_33040d54/pm25_pcsqf	R-squared:	0.023
Model:	OLS	Adj. R-squared:	0.022
Method:	Least Squares	F-statistic:	11.99
Date:	Mon, 18 Sep 2017	Prob (F-statistic):	0.000580
Time:	20:44:50	Log-Likelihood:	-2919.8
No. Observations:	501	AIC:	5844.
Df Residuals:	499	BIC:	5852.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_8d5ba45f/pm25_atm	314.7369	6.216	50.631	0.000 302.524 326.950

Omnibus:	79.315	Durbin-Watson:	2.075
Prob(Omnibus):	0.000	Jarque-Bera (JB):	148.868
Skew:	0.910	Prob(JB):	4.72e-33
Kurtosis:	4.954	Cond. No.	1.06e+04



Sensor ppd42ns@BdP_33040d54 with sensor sds011@BdP_8d5ba45f

correlation report for pm25 (raw) measurements

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

Date of correlation report: Mon Sep 18 20:44:52 CEST 2017

From date 2017-09-04 upto 2017-09-18 00:00

Origin of measurement time serie data from InFluxDB host: localhost

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

General statistical information for the measurements graphs

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

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

Database table BdP_33040d54 sensor (column) pm25_pcsqf: 501 db records, deleted 0 NaN records.

Database table BdP_8d5ba45f sensor (column) pm25: 1275 db records, deleted 0 NaN records.

Collected 501 values in sample time frame (15m/0s) for the graph.

Samples period: Sep 04 00:00 up to Sep 18 2017 00:00, interval timing 15m:0s.

Data from table/sheet BdP_8d5ba45f, sensor (column) pm25:

number 501, min=535.86, max=9248.29

avg=3082.42, std dev=1978.18

R-squared (R^2) with BdP_8d5ba45f/pm25: 0.0089

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

BdP_33040d54/pm25_pcsqf (sds011)-> best fit coefficients:

3.096e+02, -3.960e-03

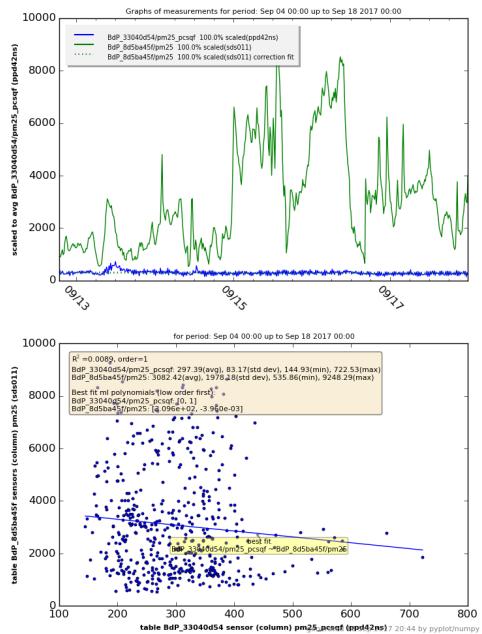
Statistical summary linear regression for BdP_33040d54/pm25_pcsqf with [BdP_8d5ba45f/pm25]:

OLS Regression Results

Dep. Variable:	BdP_33040d54/pm25_pcsqf	R-squared:	0.009
Model:	OLS	Adj. R-squared:	0.007
Method:	Least Squares	F-statistic:	4.467
Date:	Mon, 18 Sep 2017	Prob (F-statistic):	0.0350
Time:	20:44:52	Log-Likelihood:	-2923.5
No. Observations:	501	AIC:	5851.
Df Residuals:	499	BIC:	5859.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_8d5ba45f/pm25	309.5931	6.862	45.114	0.000 296.110 323.076

Omnibus:	86.346	Durbin-Watson:	2.047
Prob(Omnibus):	0.000	Jarque-Bera (JB):	172.581
Skew:	0.956	Prob(JB):	3.35e-38
Kurtosis:	5.148	Cond. No.	6.78e+03



Sensor sds011@BdP_3f18c330 with sensor pms7003@BdP_8d5ba45f

correlation report for pm25 (raw) measurements

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

Date of correlation report: Mon Sep 18 20:44:54 CEST 2017

From date 2017-09-04 upto 2017-09-18 00:00

Origin of measurement time serie data from InFluxDB host: localhost

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

General statistical information for the measurements graphs

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

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

Auto interval samples is (re)set to 999 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) pm25: 1342 db records, deleted 0 NaN records.

Database table BdP_8d5ba45f sensor (column) pm25_atm: 1150 db records, deleted 0 NaN records.

Collected 1273 values in sample time frame (16m/39s) for the graph. Skipped 69 db records, could not find any value(s) in same sample interval.

Samples period: Sep 04 00:00 up to Sep 18 2017 00:00, interval timing 16m:39s.

Data from table/sheet BdP_8d5ba45f, sensor (column) pm25_atm:

number 1273, min=100.75, max=15916.88

avg=4988.69, std dev=3602.78

R-squared (R^2) with BdP_8d5ba45f/pm25_atm: 0.9263

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

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

3.008e+02, 5.005e-01

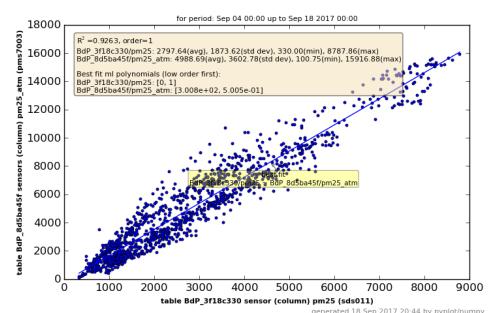
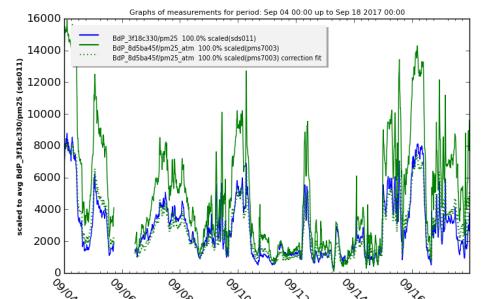
Statistical summary linear regression for BdP_3f18c330/pm25 with ['BdP_8d5ba45f/pm25_atm']:

OLS Regression Results

Dep. Variable:	BdP_3f18c330/pm25	R-squared:	0.926
Model:	OLS	Adj. R-squared:	0.926
Method:	Least Squares	F-statistic:	1.597e+04
Date:	Mon, 18 Sep 2017	Prob (F-statistic):	0.00
Time:	20:44:54	Log-Likelihood:	-9739.7
No. Observations:	1273	AIC:	1.948e+04
Df Residuals:	1271	BIC:	1.949e+04
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_8d5ba45f/pm25_atm	300.7576	24.375	12.339	0.000 252.938 348.577

Omnibus:	34.353	Durbin-Watson:	0.236
Prob(Omnibus):	0.000	Jarque-Bera (JB):	37.579
Skew:	-0.373	Prob(JB):	6.92e-09
Kurtosis:	3.389	Cond. No.	1.05e+04



Sensor sds011@BdP_3f18c330 with sensor sds011@BdP_8d5ba45f

correlation report for pm25 (raw) measurements

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

Date of correlation report: Mon Sep 18 20:44:56 CEST 2017

From date 2017-09-04 upto 2017-09-18 00:00

Origin of measurement time serie data from InFluxDB host: localhost

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

General statistical information for the measurements graphs

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

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

Auto interval samples is (re)set to 999 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) pm25: 1342 db records, deleted 0 NaN records.

Database table BdP_8d5ba45f sensor (column) pm25: 1149 db records, deleted 0 NaN records.

Collected 1273 values in sample time frame (16m/39s) for the graph. Skipped 69 db records, could not find any value(s) in same sample interval.

Samples period: Sep 04 00:00 up to Sep 18 2017 00:00, interval timing 16m:39s.

Data from table/sheet BdP_8d5ba45f, sensor (column) pm25:

number 1273, min=499.00, max=9222.50

avg=3186.81, std dev=1935.60

R-squared (R^2) with BdP_8d5ba45f/pm25: 0.9592

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

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

-2.235e+02, 9.480e-01

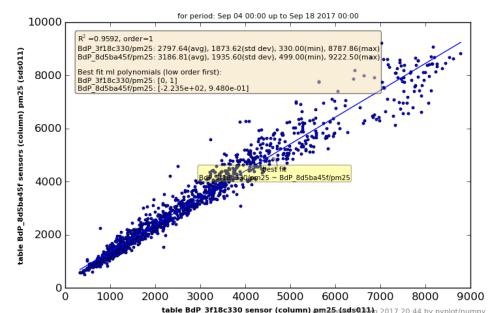
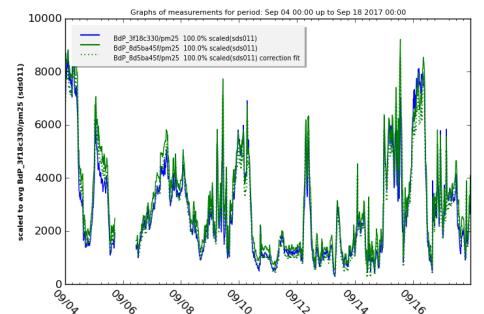
Statistical summary linear regression for BdP_3f18c330/pm25 with ['BdP_8d5ba45f/pm25']:

OLS Regression Results

Dep. Variable:	BdP_3f18c330/pm25	R-squared:	0.959
Model:	OLS	Adj. R-squared:	0.959
Method:	Least Squares	F-statistic:	2.988e+04
Date:	Mon, 18 Sep 2017	Prob (F-statistic):	0.00
Time:	20:44:57	Log-Likelihood:	-9363.0
No. Observations:	1273	AIC:	1.873e+04
Df Residuals:	1271	BIC:	1.874e+04
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_8d5ba45f/pm25	-223.5417	20.449	-10.931	0.000 -263.660 -183.424

Omnibus:	136.117	Durbin-Watson:	0.429
Prob(Omnibus):	0.000	Jarque-Bera (JB):	1084.119
Skew:	0.016	Prob(JB):	3.86e-236
Kurtosis:	7.521	Cond. No.	7.18e+03



Sensor pms7003@BdP_8d5ba45f with sensor sds011@BdP_8d5ba45f

correlation report for pm25 (raw) measurements

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

Date of correlation report: Mon Sep 18 20:44:58 CEST 2017

From date 2017-09-04 upto 2017-09-18 00:00

Origin of measurement time serie data from InFluxDB host: localhost

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

General statistical information for the measurements graphs

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

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

Database table BdP_8d5ba45f sensor (column) pm25_atm: 1275 db records, deleted 0 NaN records.

Database table BdP_8d5ba45f sensor (column) pm25: 1275 db records, deleted 0 NaN records.

Collected 1275 values in sample time frame (15m/0s) for the graph.

Samples period: Sep 04 00:00 up to Sep 18 2017 00:00, interval timing 15m:0s.

Data from table/sheet BdP_8d5ba45f, sensor (column) pm25:

number 1275, min=535.86, max=9248.29

avg=3186.46, std dev=1940.68

R-squared (R^2) with BdP_8d5ba45f/pm25: 0.9378

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

BdP_8d5ba45f/pm25_atm (sds011)-> best fit coefficients:

-7.559e+02, 1.802e+00

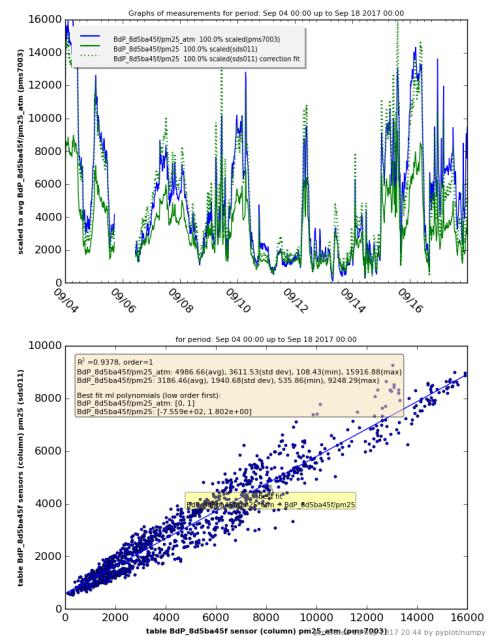
Statistical summary linear regression for BdP_8d5ba45f/pm25_atm with ['BdP_8d5ba45f/pm25']:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/pm25_atm	R-squared:	0.938
Model:	OLS	Adj. R-squared:	0.938
Method:	Least Squares	F-statistic:	1.920e+04
Date:	Mon, 18 Sep 2017	Prob (F-statistic):	0.00
Time:	20:44:59	Log-Likelihood:	-10483.
No. Observations:	1275	AIC:	2.097e+04
Df Residuals:	1273	BIC:	2.098e+04
Df Model:	1		

coef std err t P>|t| [95.0% Conf. Int.]
BdP_8d5ba45f/pm25 -755.9129 48.525 -15.578 0.000 -851.111 -660.715

Omnibus: 30.900 Durbin-Watson: 0.120
Prob(Omnibus): 0.000 Jarque-Bera (JB): 44.723
Skew: 0.245 Prob(JB): 1.94e-10
Kurtosis: 3.776 Cond. No. 7.17e+03



Sensor bme280@BdP_3f18c330 with sensor dht22@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: Mon Sep 18 20:45:00 CEST 2017

From date 2017-09-04 upto 2017-09-18 00:00

Origin of measurement time serie data from InFluxDB host: localhost

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

General statistical information for the measurements graphs

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

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

Auto interval samples is (re)set to 999 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) temp: 1342 db records, deleted 0 NaN records.

Auto interval samples is (re)set to 1071 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) temp: 788 db records, deleted 0 NaN records.

Collected 874 values in sample time frame (17m/51s) for the graph. Skipped 468 db records, could not find any value(s) in same sample interval.

Samples period: Sep 04 00:00 up to Sep 18 2017 00:00, interval timing 17m:51s.

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

number 874, min= 0.00, max=28.12

avg=18.63, std dev= 3.84

R-squared (R^2) with BdP_3f18c330/temp: 0.9713

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

BdP_3f18c330/temp (dht22)-> best fit coefficients:

7.881e-01, 1.003e+00

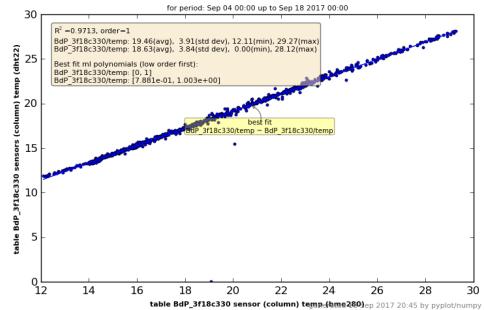
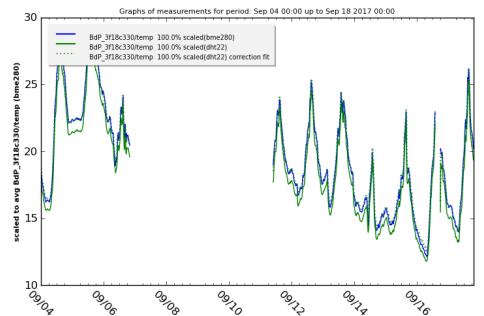
Statistical summary linear regression for BdP_3f18c330/temp with ['BdP_3f18c330/temp']:

OLS Regression Results

Dep. Variable:	BdP_3f18c330/temp	R-squared:	0.971
Model:	OLS	Adj. R-squared:	0.971
Method:	Least Squares	F-statistic:	2.947e+04
Date:	Mon, 18 Sep 2017	Prob (F-statistic):	0.00
Time:	20:45:01	Log-Likelihood:	-879.98
No. Observations:	874	AIC:	1764.
Df Residuals:	872	BIC:	1773.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_3f18c330/temp	0.7881	0.111	7.095	0.000 0.570 1.006

Omnibus:	2168.326	Durbin-Watson:	1.829
Prob(Omnibus):	0.000	Jarque-Bera (JB):	16190820.682
Skew:	24.352	Prob(JB):	0.00
Kurtosis:	668.002	Cond. No.	94.5



Sensor bme280@BdP_3f18c330 with sensor bme280@BdP_8d5ba45f

correlation report for temp (raw) measurements

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

Date of correlation report: Mon Sep 18 20:45:03 CEST 2017

From date 2017-09-04 upto 2017-09-18 00:00

Origin of measurement time serie data from InFluxDB host: localhost

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

General statistical information for the measurements graphs

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

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

Auto interval samples is (re)set to 999 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) temp: 1342 db records, deleted 0 NaN records.

Database table BdP_8d5ba45f sensor (column) temp: 1149 db records, deleted 0 NaN records.

Collected 1273 values in sample time frame (16m/39s) for the graph. Skipped 69 db records, could not find any value(s) in same sample interval.

Samples period: Sep 04 00:00 up to Sep 18 2017 00:00, interval timing 16m:39s.

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

number 1273, min=11.38, max=28.97

avg=18.58, std dev = 3.40

R-squared (R^2) with BdP_8d5ba45f/temp: 0.9600

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

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

1.756e+00, 9.435e-01

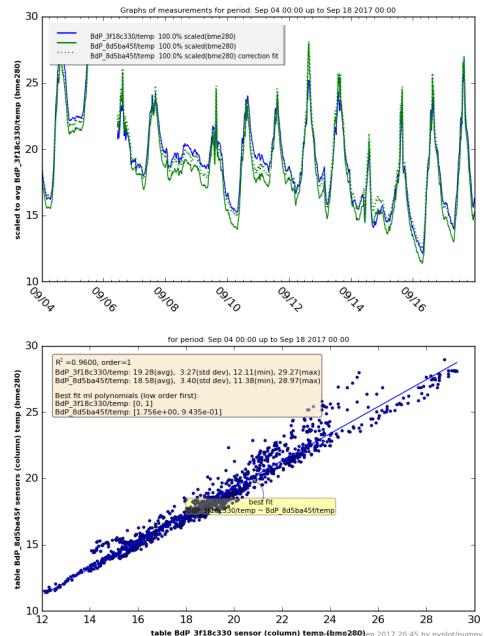
Statistical summary linear regression for BdP_3f18c330/temp with ['BdP_8d5ba45f/temp']:

OLS Regression Results

Dep. Variable:	BdP_3f18c330/temp	R-squared:	0.960
Model:	OLS	Adj. R-squared:	0.960
Method:	Least Squares	F-statistic:	3.048e+04
Date:	Mon, 18 Sep 2017	Prob (F-statistic):	0.00
Time:	20:45:03	Log-Likelihood:	-1267.5
No. Observations:	1273	AIC:	2539.
Df Residuals:	1271	BIC:	2549.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_8d5ba45f/temp	1.7556	0.102	17.201	0.000 1.555 1.956

Omnibus:	236.726	Durbin-Watson:	0.182
Prob(Omnibus):	0.000	Jarque-Bera (JB):	467.267
Skew:	-1.090	Prob(JB):	3.42e-102
Kurtosis:	5.013	Cond. No.	105.



Sensor bme280@BdP_3f18c330 with sensor dht22@BdP_8d5ba45f

correlation report for temp (raw) measurements

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

Date of correlation report: Mon Sep 18 20:45:05 CEST 2017

From date 2017-09-04 upto 2017-09-18 00:00

Origin of measurement time serie data from InFluxDB host: localhost

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

General statistical information for the measurements graphs

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

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

Auto interval samples is (re)set to 999 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) temp: 1342 db records, deleted 0 NaN records.

Database table BdP_8d5ba45f sensor (column) temp: 1151 db records, deleted 0 NaN records.

Collected 1275 values in sample time frame (16m/39s) for the graph. Skipped 67 db records, could not find any value(s) in same sample interval.

Samples period: Sep 04 00:00 up to Sep 18 2017 00:00, interval timing 16m:39s.

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

number 1275, min= 0.00, max=29.17

avg=18.97, std dev= 3.38

R-squared (R^2) with BdP_8d5ba45f/temp: 0.9160

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

BdP_3f18c330/temp (dht22)-> best fit coefficients:

1.684e+00, 9.279e-01

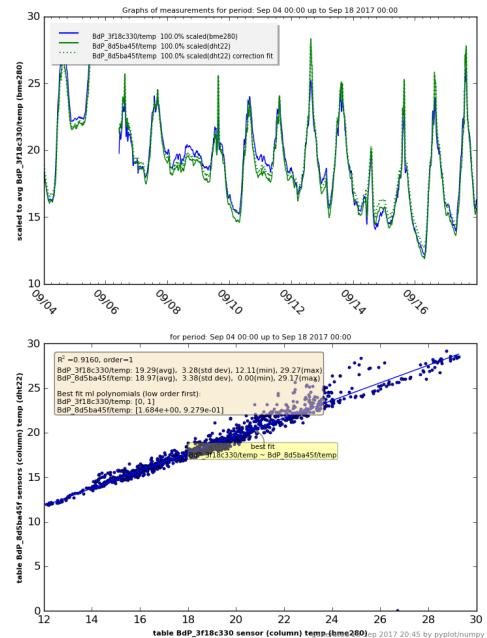
Statistical summary linear regression for BdP_3f18c330/temp with ['BdP_8d5ba45f/temp']:

OLS Regression Results

Dep. Variable:	BdP_3f18c330/temp	R-squared:	0.916
Model:	OLS	Adj. R-squared:	0.916
Method:	Least Squares	F-statistic:	1.388e+04
Date:	Mon, 18 Sep 2017	Prob (F-statistic):	0.00
Time:	20:45:06	Log-Likelihood:	-1743.9
No. Observations:	1275	AIC:	3492.
Df Residuals:	1273	BIC:	3502.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_8d5ba45f/temp	1.6841	0.152	11.093	0.000 1.386 1.982

Omnibus:	2471.537	Durbin-Watson:	1.228
Prob(Omnibus):	0.000	Jarque-Bera (JB):	7558048.634
Skew:	14.118	Prob(JB):	0.00
Kurtosis:	379.127	Cond. No.	110.



Sensor dht22@BdP_3f18c330 with sensor bme280@BdP_8d5ba45f

correlation report for temp (raw) measurements

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

Date of correlation report: Mon Sep 18 20:45:07 CEST 2017

From date 2017-09-04 upto 2017-09-18 00:00

Origin of measurement time serie data from InFluxDB host: localhost

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

General statistical information for the measurements graphs

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

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

Auto interval samples is (re)set to 1024 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) temp: 873 db records, deleted 0 NaN records.

Database table BdP_8d5ba45f sensor (column) temp: 1123 db records, deleted 0 NaN records.

Collected 805 values in sample time frame (17m/4s) for the graph. Skipped 68 db records, could not find any value(s) in same sample interval.

Samples period: Sep 04 00:00 up to Sep 18 2017 00:00, interval timing 17m:4s.

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

number 805, min=11.39, max=28.67

avg=18.62, std dev = 3.96

R-squared (R^2) with BdP_8d5ba45f/temp: 0.9440

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

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

1.071e+00, 9.257e-01

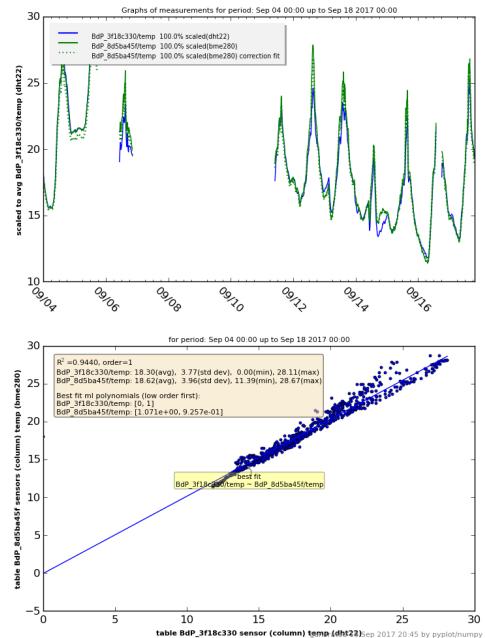
Statistical summary linear regression for BdP_3f18c330/temp with ['BdP_8d5ba45f/temp']:

OLS Regression Results

Dep. Variable:	BdP_3f18c330/temp	R-squared:	0.944
Model:	OLS	Adj. R-squared:	0.944
Method:	Least Squares	F-statistic:	1.354e+04
Date:	Mon, 18 Sep 2017	Prob (F-statistic):	0.00
Time:	20:45:08	Log-Likelihood:	-1050.0
No. Observations:	805	AIC:	2104.
Df Residuals:	803	BIC:	2113.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_8d5ba45f/temp	1.0713	0.151	7.076	0.000 0.774 1.368

Omnibus:	1344.867	Durbin-Watson:	1.036
Prob(Omnibus):	0.000	Jarque-Bera (JB):	1276494.088
Skew:	-10.127	Prob(JB):	0.00
Kurtosis:	197.028	Cond. No.	91.8



Sensor dht22@BdP_3f18c330 with sensor dht22@BdP_8d5ba45f

correlation report for temp (raw) measurements

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

Date of correlation report: Mon Sep 18 20:45:09 CEST 2017

From date 2017-09-04 upto 2017-09-18 00:00

Origin of measurement time serie data from InFluxDB host: localhost

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

General statistical information for the measurements graphs

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

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

Auto interval samples is (re)set to 1024 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) temp: 873 db records, deleted 0 NaN records.

Database table BdP_8d5ba45f sensor (column) temp: 1124 db records, deleted 0 NaN records.

Collected 806 values in sample time frame (17m/4s) for the graph. Skipped 67 db records, could not find any value(s) in same sample interval.

Samples period: Sep 04 00:00 up to Sep 18 2017 00:00, interval timing 17m:4s.

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

number 806, min= 0.00, max=28.98

avg=18.95, std dev= 3.94

R-squared (R^2) with BdP_8d5ba45f/temp: 0.8955

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

BdP_3f18c330/temp (dht22)-> best fit coefficients:

1.109e+00, 9.076e-01

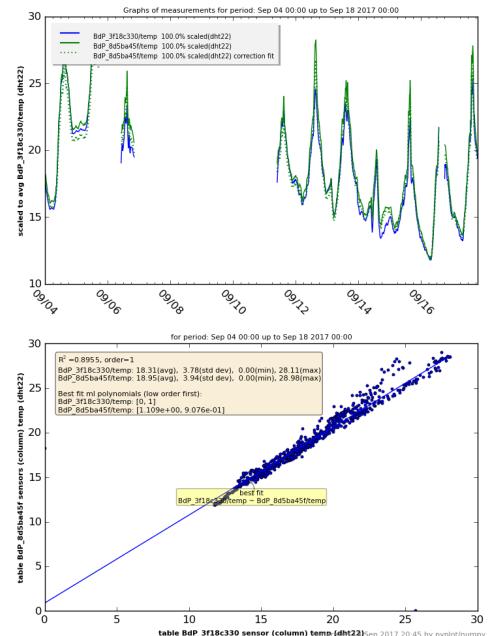
Statistical summary linear regression for BdP_3f18c330/temp with ['BdP_8d5ba45f/temp']:

OLS Regression Results

Dep. Variable:	BdP_3f18c330/temp	R-squared:	0.896
Model:	OLS	Adj. R-squared:	0.895
Method:	Least Squares	F-statistic:	6892.
Date:	Mon, 18 Sep 2017	Prob (F-statistic):	0.00
Time:	20:45:10	Log-Likelihood:	-1304.1
No. Observations:	806	AIC:	2612.
Df Residuals:	804	BIC:	2622.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_8d5ba45f/temp	1.1094	0.212	5.242	0.000 0.694 1.525

Omnibus:	1108.286	Durbin-Watson:	1.584
Prob(Omnibus):	0.000	Jarque-Bera (JB):	2237096.831
Skew:	6.394	Prob(JB):	0.00
Kurtosis:	260.779	Cond. No.	95.4



Sensor bme280@BdP_8d5ba45f with sensor dht22@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: Mon Sep 18 20:45:12 CEST 2017

From date 2017-09-04 upto 2017-09-18 00:00

Origin of measurement time serie data from InFluxDB host: localhost

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

General statistical information for the measurements graphs

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

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

Database table BdP_8d5ba45f sensor (column) temp: 1275 db records, deleted 0 NaN records.

Database table BdP_8d5ba45f sensor (column) temp: 1276 db records, deleted 0 NaN records.

Collected 1275 values in sample time frame (15m/0s) for the graph.

Samples period: Sep 04 00:00 up to Sep 18 2017 00:00, interval timing 15m:0s.

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

number 1275, min=11.86, max=29.11

avg=18.99, std dev= 3.34

R-squared (R^2) with BdP_8d5ba45f/temp: 0.9933

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

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

-6.737e-01, 1.014e+00

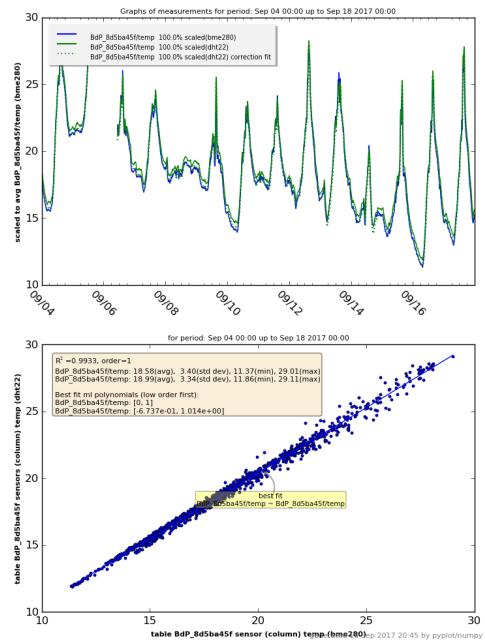
Statistical summary linear regression for BdP_8d5ba45f/temp with ['BdP_8d5ba45f/temp']:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/temp	R-squared:	0.993
Model:	OLS	Adj. R-squared:	0.993
Method:	Least Squares	F-statistic:	1.891e+05
Date:	Mon, 18 Sep 2017	Prob (F-statistic):	0.00
Time:	20:45:12	Log-Likelihood:	-176.09
No. Observations:	1275	AIC:	356.2
Df Residuals:	1273	BIC:	366.5
Df Model:	1		

coef	std err	t	P> t [95.0% Conf. Int.]
BdP_8d5ba45f/temp	-0.6737 0.045	-14.986 0.000	-0.762 -0.586

Omnibus:	155.209	Durbin-Watson:	0.465
Prob(Omnibus):	0.000	Jarque-Bera (JB):	1236.633
Skew:	0.242	Prob(JB):	2.94e-269
Kurtosis:	7.800	Cond. No.	112.



Sensor bme280@BdP_3f18c330 with sensor dht22@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: Mon Sep 18 20:45:14 CEST 2017

From date 2017-09-04 upto 2017-09-18 00:00

Origin of measurement time serie data from InFluxDB host: localhost

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

General statistical information for the measurements graphs

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

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

Auto interval samples is (re)set to 999 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) rh: 1342 db records, deleted 0 NaN records.

Auto interval samples is (re)set to 1071 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) rh: 788 db records, deleted 0 NaN records.

Collected 874 values in sample time frame (17m/51s) for the graph. Skipped 468 db records, could not find any value(s) in same sample interval.

Samples period: Sep 04 00:00 up to Sep 18 2017 00:00, interval timing 17m:51s.

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

number 874, min= 0.00, max=75.25

avg=57.73, std dev= 9.46

R-squared (R^2) with BdP_3f18c330/rh: 0.9486

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

BdP_3f18c330/rh (dht22)-> best fit coefficients:

-5.124e-01, 9.923e-01

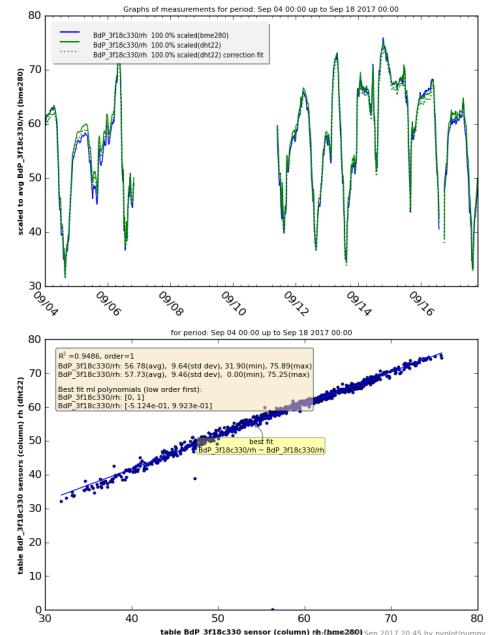
Statistical summary linear regression for BdP_3f18c330/rh with ['BdP_3f18c330/rh']:

OLS Regression Results

Dep. Variable:	BdP_3f18c330/rh	R-squared:	0.949
Model:	OLS	Adj. R-squared:	0.949
Method:	Least Squares	F-statistic:	1.608e+04
Date:	Mon, 18 Sep 2017	Prob (F-statistic):	0.00
Time:	20:45:14	Log-Likelihood:	-1923.7
No. Observations:	874	AIC:	3851.
Df Residuals:	872	BIC:	3861.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_3f18c330/rh	-0.5124	0.458	-1.119	0.263 -1.411 0.386

Omnibus:	2005.745	Durbin-Watson:	1.648
Prob(Omnibus):	0.000	Jarque-Bera (JB):	9964065.946
Skew:	20.198	Prob(JB):	0.00
Kurtosis:	524.518	Cond. No.	362.



Sensor bme280@BdP_3f18c330 with sensor bme280@BdP_8d5ba45f

correlation report for rh (raw) measurements

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

Date of correlation report: Mon Sep 18 20:45:16 CEST 2017

From date 2017-09-04 upto 2017-09-18 00:00

Origin of measurement time serie data from InFluxDB host: localhost

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

General statistical information for the measurements graphs

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

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

Auto interval samples is (re)set to 999 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) rh: 1342 db records, deleted 0 NaN records.

Database table BdP_8d5ba45f sensor (column) rh: 1149 db records, deleted 0 NaN records.

Collected 1273 values in sample time frame (16m/39s) for the graph. Skipped 69 db records, could not find any value(s) in same sample interval.

Samples period: Sep 04 00:00 up to Sep 18 2017 00:00, interval timing 16m:39s.

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

number 1273, min=34.39, max=80.56

avg=63.15, std dev=10.26

R-squared (R^2) with BdP_8d5ba45f/rh: 0.9505

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

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

2.910e+00, 8.584e-01

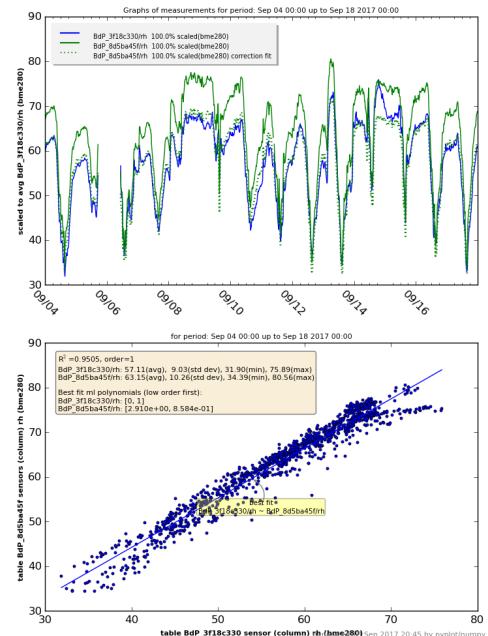
Statistical summary linear regression for BdP_3f18c330/rh with ['BdP_8d5ba45f/rh']:

OLS Regression Results

Dep. Variable:	BdP_3f18c330/rh	R-squared:	0.951
Model:	OLS	Adj. R-squared:	0.950
Method:	Least Squares	F-statistic:	2.442e+04
Date:	Mon, 18 Sep 2017	Prob (F-statistic):	0.00
Time:	20:45:17	Log-Likelihood:	-2694.4
No. Observations:	1273	AIC:	5393.
Df Residuals:	1271	BIC:	5403.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_8d5ba45f/rh	2.9099	0.351	8.281	0.000 2.221 3.599

Omnibus:	249.479	Durbin-Watson:	0.165
Prob(Omnibus):	0.000	Jarque-Bera (JB):	498.273
Skew:	1.140	Prob(JB):	6.33e-109
Kurtosis:	5.049	Cond. No.	399.



Sensor bme280@BdP_3f18c330 with sensor dht22@BdP_8d5ba45f

correlation report for rh (raw) measurements

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

Date of correlation report: Mon Sep 18 20:45:18 CEST 2017

From date 2017-09-04 upto 2017-09-18 00:00

Origin of measurement time serie data from InFluxDB host: localhost

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

General statistical information for the measurements graphs

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

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

Auto interval samples is (re)set to 999 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) rh: 1342 db records, deleted 0 NaN records.

Database table BdP_8d5ba45f sensor (column) rh: 1151 db records, deleted 0 NaN records.

Collected 1275 values in sample time frame (16m/39s) for the graph. Skipped 67 db records, could not find any value(s) in same sample interval.

Samples period: Sep 04 00:00 up to Sep 18 2017 00:00, interval timing 16m:39s.

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

number 1275, min= 0.00, max=84.86

avg=65.00, std dev=11.04

R-squared (R^2) with BdP_8d5ba45f/rh: 0.9332

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

BdP_3f18c330/rh (dht22)-> best fit coefficients:

5.767e+00, 7.900e-01

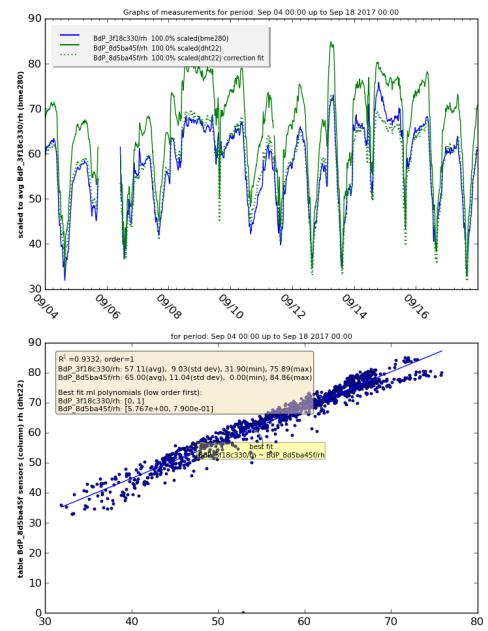
Statistical summary linear regression for BdP_3f18c330/rh with ['BdP_8d5ba45f/rh']:

OLS Regression Results

Dep. Variable:	BdP_3f18c330/rh	R-squared:	0.933
Model:	OLS	Adj. R-squared:	0.933
Method:	Least Squares	F-statistic:	1.777e+04
Date:	Mon, 18 Sep 2017	Prob (F-statistic):	0.00
Time:	20:45:19	Log-Likelihood:	-2889.7
No. Observations:	1275	AIC:	5783.
Df Residuals:	1273	BIC:	5794.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_8d5ba45f/rh	5.7669	0.391	14.761	0.000 5.000 6.533

Omnibus:	1718.750	Durbin-Watson:	0.641
Prob(Omnibus):	0.000	Jarque-Bera (JB):	907728.585
Skew:	6.929	Prob(JB):	0.00
Kurtosis:	132.979	Cond. No.	394.



Sensor dht22@BdP_3f18c330 with sensor bme280@BdP_8d5ba45f

correlation report for rh (raw) measurements

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

Date of correlation report: Mon Sep 18 20:45:20 CEST 2017

From date 2017-09-04 upto 2017-09-18 00:00

Origin of measurement time serie data from InFluxDB host: localhost

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

General statistical information for the measurements graphs

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

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

Auto interval samples is (re)set to 1024 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) rh: 873 db records, deleted 0 NaN records.

Database table BdP_8d5ba45f sensor (column) rh: 1123 db records, deleted 0 NaN records.

Collected 805 values in sample time frame (17m/4s) for the graph. Skipped 68 db records, could not find any value(s) in same sample interval.

Samples period: Sep 04 00:00 up to Sep 18 2017 00:00, interval timing 17m:4s.

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

number 805, min=33.72, max=80.46

avg=61.76, std dev=10.79

R-squared (R^2) with BdP_8d5ba45f/rh: 0.9085

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

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

4.842e+00, 8.508e-01

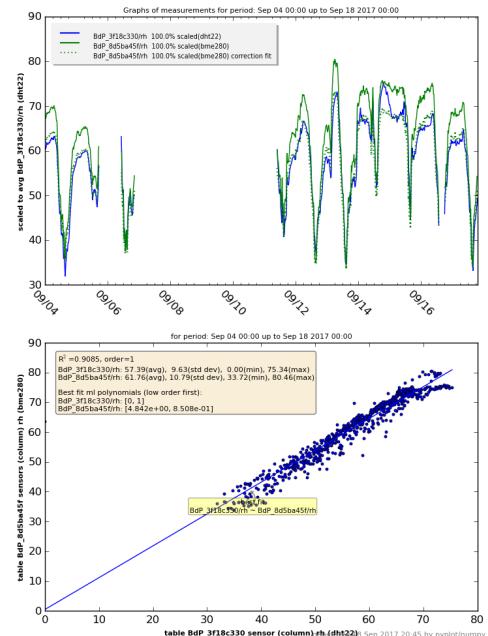
Statistical summary linear regression for BdP_3f18c330/rh with ['BdP_8d5ba45f/rh']:

OLS Regression Results

Dep. Variable:	BdP_3f18c330/rh	R-squared:	0.909
Model:	OLS	Adj. R-squared:	0.908
Method:	Least Squares	F-statistic:	7976.
Date:	Mon, 18 Sep 2017	Prob (F-statistic):	0.00
Time:	20:45:21	Log-Likelihood:	-2002.5
No. Observations:	805	AIC:	4009.
Df Residuals:	803	BIC:	4018.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]		
BdP_8d5ba45f/rh	4.8424	0.597	8.108	0.000	3.670	6.015

Omnibus:	1335.200	Durbin-Watson:	1.167
Prob(Omnibus):	0.000	Jarque-Bera (JB):	1427877.763
Skew:	-9.907	Prob(JB):	0.00
Kurtosis:	208.372	Cond. No.	365.



Sensor dht22@BdP_3f18c330 with sensor dht22@BdP_8d5ba45f

correlation report for rh (raw) measurements

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

Date of correlation report: Mon Sep 18 20:45:23 CEST 2017

From date 2017-09-04 upto 2017-09-18 00:00

Origin of measurement time serie data from InFluxDB host: localhost

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

General statistical information for the measurements graphs

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

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

Auto interval samples is (re)set to 1024 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) rh: 873 db records, deleted 0 NaN records.

Database table BdP_8d5ba45f sensor (column) rh: 1124 db records, deleted 0 NaN records.

Collected 806 values in sample time frame (17m/4s) for the graph. Skipped 67 db records, could not find any value(s) in same sample interval.

Samples period: Sep 04 00:00 up to Sep 18 2017 00:00, interval timing 17m:4s.

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

number 806, min= 0.00, max=84.85

avg=63.59, std dev=11.64

R-squared (R^2) with BdP_8d5ba45f/rh: 0.8885

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

BdP_3f18c330/rh (dht22)-> best fit coefficients:

7.834e+00, 7.792e-01

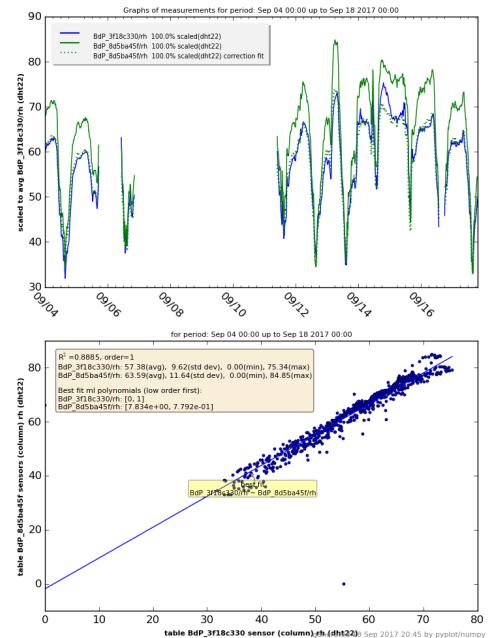
Statistical summary linear regression for BdP_3f18c330/rh with ['BdP_8d5ba45f/rh']:

OLS Regression Results

Dep. Variable:	BdP_3f18c330/rh	R-squared:	0.888
Model:	OLS	Adj. R-squared:	0.888
Method:	Least Squares	F-statistic:	6404.
Date:	Mon, 18 Sep 2017	Prob (F-statistic):	0.00
Time:	20:45:23	Log-Likelihood:	-2084.5
No. Observations:	806	AIC:	4173.
Df Residuals:	804	BIC:	4182.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_8d5ba45f/rh	7.8342	0.629	12.446	0.000 6.599 9.070

Omnibus:	843.300	Durbin-Watson:	1.386
Prob(Omnibus):	0.000	Jarque-Bera (JB):	1362646.022
Skew:	-3.692	Prob(JB):	0.00
Kurtosis:	204.297	Cond. No.	359.



Sensor bme280@BdP_8d5ba45f with sensor dht22@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: Mon Sep 18 20:45:25 CEST 2017

From date 2017-09-04 upto 2017-09-18 00:00

Origin of measurement time serie data from InFluxDB host: localhost

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

General statistical information for the measurements graphs

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

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

Database table BdP_8d5ba45f sensor (column) rh: 1275 db records, deleted 0 NaN records.

Database table BdP_8d5ba45f sensor (column) rh: 1276 db records, deleted 0 NaN records.

Collected 1275 values in sample time frame (15m/0s) for the graph.

Samples period: Sep 04 00:00 up to Sep 18 2017 00:00, interval timing 15m:0s.

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

number 1275, min=32.41, max=84.92

avg=65.04, std dev=10.89

R-squared (R^2) with BdP_8d5ba45f/rh: 0.9926

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

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

2.116e+00, 9.382e-01

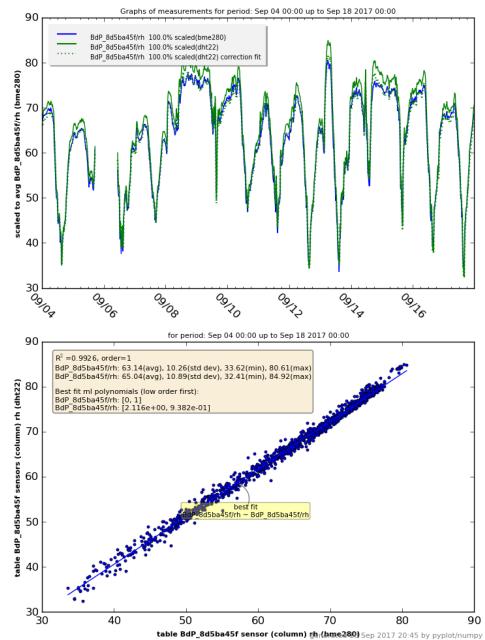
Statistical summary linear regression for BdP_8d5ba45f/rh with [BdP_8d5ba45f/rh]:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/rh	R-squared:	0.993
Model:	OLS	Adj. R-squared:	0.993
Method:	Least Squares	F-statistic:	1.701e+05
Date:	Mon, 18 Sep 2017	Prob (F-statistic):	0.00
Time:	20:45:25	Log-Likelihood:	-1651.9
No. Observations:	1275	AIC:	3308.
Df Residuals:	1273	BIC:	3318.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]		
BdP_8d5ba45f/rh	2.1159	0.150	14.105	0.000	1.822	2.410

Omnibus:	79.248	Durbin-Watson:	0.431
Prob(Omnibus):	0.000	Jarque-Bera (JB):	204.207
Skew:	-0.330	Prob(JB):	4.54e-45
Kurtosis:	4.846	Cond. No.	399.



Sensor bme280@BdP_3f18c330 with sensor bme280@BdP_8d5ba45f

correlation report for pha (raw) measurements

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

Date of correlation report: Mon Sep 18 20:45:27 CEST 2017

From date 2017-09-04 upto 2017-09-18 00:00

Origin of measurement time serie data from InFluxDB host: localhost

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

General statistical information for the measurements graphs

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

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

Auto interval samples is (re)set to 999 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) pha: 1342 db records, deleted 0 NaN records.

Database table BdP_8d5ba45f sensor (column) pha: 1149 db records, deleted 0 NaN records.

Collected 1273 values in sample time frame (16m/39s) for the graph. Skipped 69 db records, could not find any value(s) in same sample interval.

Samples period: Sep 04 00:00 up to Sep 18 2017 00:00, interval timing 16m:39s.

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

number 1273, min=99237.40, max=101598.51

avg=100506.19, std dev=710.81

R-squared (R^2) with BdP_8d5ba45f/pha: 0.9999

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

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

-4.014e+02, 1.004e+00

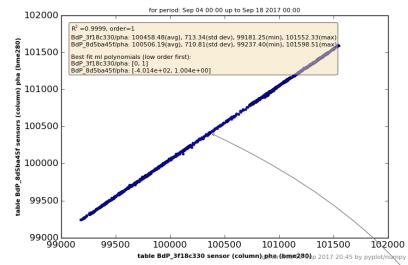
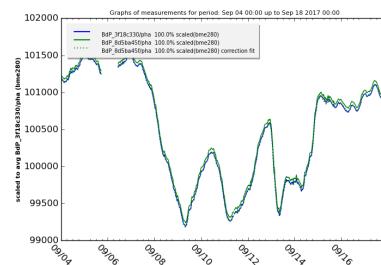
Statistical summary linear regression for BdP_3f18c330/pha with ['BdP_8d5ba45f/pha']:

OLS Regression Results

Dep. Variable:	BdP_3f18c330/pha	R-squared:	1.000
Model:	OLS	Adj. R-squared:	1.000
Method:	Least Squares	F-statistic:	1.515e+07
Date:	Mon, 18 Sep 2017	Prob (F-statistic):	0.00
Time:	20:45:27	Log-Likelihood:	-4195.6
No. Observations:	1273	AIC:	8395.
Df Residuals:	1271	BIC:	8405.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_8d5ba45f/pha	-401.3785	25.912	-15.490	0.000 -452.213 -350.544

Omnibus:	111.694	Durbin-Watson:	0.942
Prob(Omnibus):	0.000	Jarque-Bera (JB):	326.660
Skew:	0.443	Prob(JB):	1.17e-71
Kurtosis:	5.318	Cond. No.	1.42e+07



best fit
BdP_3f18c330/pha = BdP_8d5ba45f/pha