Table of Contents

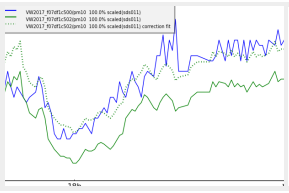
Summary of correlations of sensor kits and sensor modules

Sensorkits: VW2017_f07df1c500 VW2017_f07df1c502
Report generated on: Tue Dec 19 11:11:16 CET 2017

R-square and statistical summary

Measurement PM10 correlation key values

Correlation 1 - **PM10** - kit VW2017_f07df1c500 sensor type **SDS011** with kit VW2017_f07df1c502 sensor type **SDS011**:

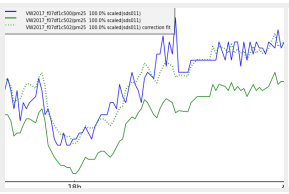


nr samples 85, min= 2.33, max= 4.10
avg= 3.35, std dev= 0.54
R-squared:
0.7020

Best fit polynomial coefficients:
[6.361e-01, 9.852e-01]

Measurement PM2.5 correlation key values

Correlation 2 - **PM2.5** - kit VW2017_f07df1c500 sensor type **SDS011** with kit VW2017_f07df1c502 sensor type **SDS011**:

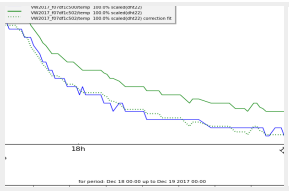


nr samples 85, min= 2.13, max= 3.80
avg= 3.03, std dev= 0.47
R-squared:
0.8352

Best fit polynomial coefficients:
[3.109e-01, 1.087e+00]

Measurement TEMP correlation key values

Correlation 3 - **TEMP** - kit VW2017_f07df1c500 sensor type **DHT22** with kit VW2017_f07df1c502 sensor type **DHT22**:

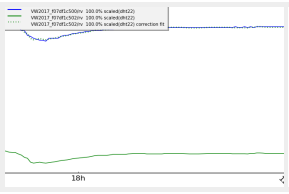


nr samples 83, min=23.80, max=25.10
avg=24.24, std dev= 0.41
R-squared:
0.9879

Best fit polynomial coefficients:
[-8.330e-01, 1.023e+00]

Measurement RH correlation key values

Correlation 4 - **RH** - kit VW2017_f07df1c500 sensor type **DHT22** with kit VW2017_f07df1c502 sensor type **DHT22**:



nr samples 83, min=27.00, max=28.50
avg=27.82, std dev= 0.34
R-squared:
0.9194

Best fit polynomial coefficients:
[4.997e+00, 1.287e+00]

Sensor sds011@VW2017_f07df1c500 with sensor sds011@VW2017_f07df1c502

correlation report for pm10 (raw) measurements

Correlation details of project VW2017 sensor kit ID f07df1c500 with project VW2017 sensor kit ID f07df1c502
Date of correlation report: Tue Dec 19 11:11:07 CET 2017
From date 2017-12-18 upto 2017-12-19 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 MYSQL from luchtmetingen on server localhost as user teus:
Database table VW2017_f07df1c500 sensor (column) pm10: 86 db records, deleted 0 NaN records.
Database table VW2017_f07df1c502 sensor (column) pm10: 80 db records, deleted 0 NaN records.
Collected 85 values in sample time frame (15m/0s) for the graph. Skipped 1 db records, could not find any value(s) in same sample interval.

Samples period: Dec 18 00:00 up to Dec 19 2017 00:00, interval timing 15m:0s.

Data from table/sheet VW2017_f07df1c502, sensor (column) pm10:

number 85, min= 2.33, max= 4.10

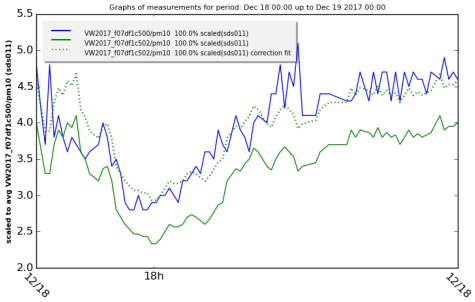
avg= 3.35, std dev= 0.54

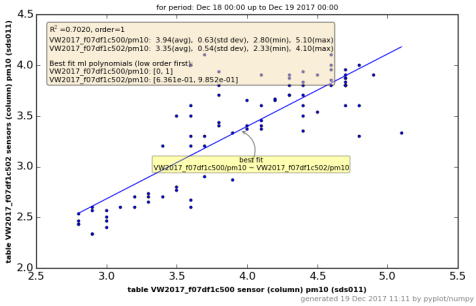
R-squared (R²) with VW2017_f07df1c502/pm10: 0.7020

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

VW2017_f07df1c500/pm10 (sds011)-> best fit coefficients:

6.361e-01, 9.852e-01





Statistical summary linear regression for VW2017_f07df1c500/pm10 with ['VW2017_f07df1c502/pm10']:

OLS Regression Results

Dep. Variable:	VW2017_f07df1c500/pm10	**R-squared:**	0.702
Model:	OLS	**Adj. R-squared:**	0.698
Method:	Least Squares	**F-statistic:**	195.5
Date:	Tue, 19 Dec 2017	**Prob (F-statistic):**	1.58e-23
Time:	11:11:12	**Log-Likelihood:**	-30.050
No. Observations:	85	**AIC:**	64.10
Df Residuals:	83	**BIC:**	68.99
Df Model:	1		

	coef	std err	t	P>|t|	[95.0% Conf. Int.]	
VW2017_f07df1c502/pm10	0.6361	0.239	2.658	0.009	0.160	1.112

Omnibus:	6.530	**Durbin-Watson:**	1.030
Prob(Omnibus):	0.038	**Jarque-Bera (JB):**	11.250
Skew:	0.034	**Prob(JB):**	0.00361
Kurtosis:	4.781	**Cond. No.**	23.3

Sensor sds011@VW2017_f07df1c500 with sensor sds011@VW2017_f07df1c502

correlation report for pm25 (raw) measurements

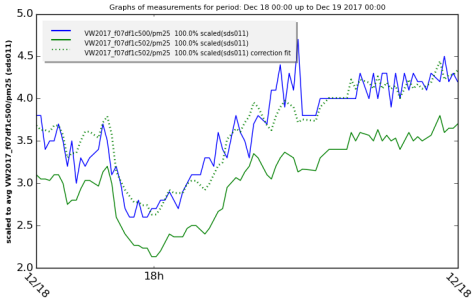
Correlation details of project VW2017 sensor kit ID f07df1c500 with project VW2017 sensor kit ID f07df1c502
Date of correlation report: Tue Dec 19 11:11:16 CET 2017
From date 2017-12-18 upto 2017-12-19 00:00
Origin of measurement time serie data from InFluxDB host: localhost
Report generated by MyRegression.py (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 MYSQL from luchtmetingen on server localhost as user teus:
Database table VW2017_f07df1c500 sensor (column) pm25: 86 db records, deleted 0 NaN records.
Database table VW2017_f07df1c502 sensor (column) pm25: 80 db records, deleted 0 NaN records.
Collected 85 values in sample time frame (15m/0s) for the graph. Skipped 1 db records, could not find any value(s) in same sample interval.

Samples period: Dec 18 00:00 up to Dec 19 2017 00:00, interval timing 15m:0s.

Data from table/sheet VW2017_f07df1c502, sensor (column) pm25:



number 85, min= 2.13, max= 3.80

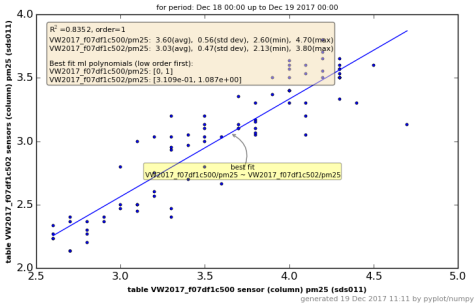
avg= 3.03, std dev= 0.47

R-squared (R^2) with VW2017_f07df1c502/pm25: 0.8352

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

VW2017_f07df1c500/pm25 (sds011)-> best fit coefficients:

3.109e-01, 1.087e+00



Statistical summary linear regression for VW2017_f07df1c500/pm25 with ['VW2017_f07df1c502/pm25']:

OLS Regression Results

Dep. Variable:	VW2017_f07df1c500/pm25	**R-squared:**	0.835
Model:	OLS	**Adj. R-squared:**	0.833
Method:	Least Squares	**F-statistic:**	420.5
Date:	Tue, 19 Dec 2017	**Prob (F-statistic):**	3.07e-34
Time:	11:11:16	**Log-Likelihood:**	5.4323
No. Observations:	85	**AIC:**	-6.865
Df Residuals:	83	**BIC:**	-1.979
Df Model:	1		

	coef	std err	t	P>|t|	[95.0% Conf. Int.]	
VW2017_f07df1c502/pm25	0.3109	0.162	1.915	0.059	-0.012	0.634

Omnibus:	21.531	**Durbin-Watson:**	1.415
Prob(Omnibus):	0.000	**Jarque-Bera (JB):**	42.801
Skew:	0.913	**Prob(JB):**	5.08e-10
Kurtosis:	5.958	**Cond. No.**	22.0

Sensor dht22@VW2017_f07df1c500 with sensor dht22@VW2017_f07df1c502

correlation report for temp (raw) measurements

Correlation details of project VW2017 sensor kit ID f07df1c500 with project VW2017 sensor kit ID f07df1c502
Date of correlation report: Tue Dec 19 11:11:18 CET 2017
From date 2017-12-18 upto 2017-12-19 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 MYSQL from luchtmetingen on server localhost as user teus:
Database table VW2017_f07df1c500 sensor (column) temp: 84 db records, deleted 2 NaN records.
Database table VW2017_f07df1c502 sensor (column) temp: 79 db records, deleted 1 NaN records.
Collected 83 values in sample time frame (15m/0s) for the graph. Skipped 1 db records, could not find any value(s) in same sample interval.

Samples period: Dec 18 00:00 up to Dec 19 2017 00:00, interval timing 15m:0s.

Data from table/sheet VW2017_f07df1c502, sensor (column) temp:

number 83, min=23.80, max=25.10

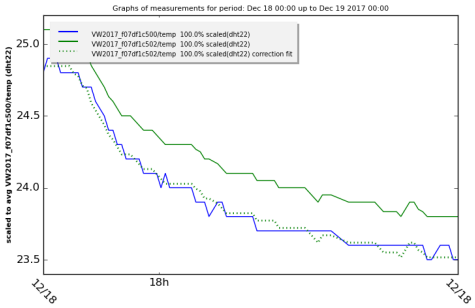
avg=24.24, std dev= 0.41

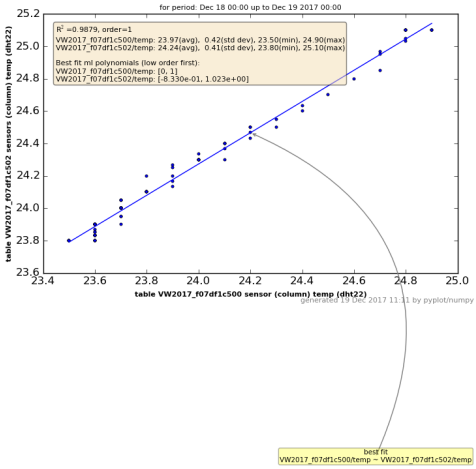
R-squared (R²) with VW2017_f07df1c502/temp: 0.9879

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

VW2017_f07df1c500/temp (dht22)-> best fit coefficients:

-8.330e-01, 1.023e+00





Statistical summary linear regression for VW2017_f07df1c500/temp with ['VW2017_f07df1c502/temp']:

OLS Regression Results

Dep. Variable:	VW2017_f07df1c500/temp	**R-squared:**	0.988
Model:	OLS	**Adj. R-squared:**	0.988
Method:	Least Squares	**F-statistic:**	6635.
Date:	Tue, 19 Dec 2017	**Prob (F-statistic):**	1.76e-79
Time:	11:11:18	**Log-Likelihood:**	137.43
No. Observations:	83	**AIC:**	-270.9
Df Residuals:	81	**BIC:**	-266.0
Df Model:	1		

	coef	**std err**	**t**	**P>|t|**	**[95.0% Conf. Int.]**	
VW2017_f07df1c502/temp	-0.8330	0.305	-2.735	0.008	-1.439	-0.227

Omnibus:	0.772	**Durbin-Watson:**	1.081
Prob(Omnibus):	0.680	**Jarque-Bera (JB):**	0.862
Skew:	0.212	**Prob(JB):**	0.650
Kurtosis:	2.735	**Cond. No.**	1.44e+03

Sensor dht22@VW2017_f07df1c500 with sensor dht22@VW2017_f07df1c502

correlation report for rh (raw) measurements

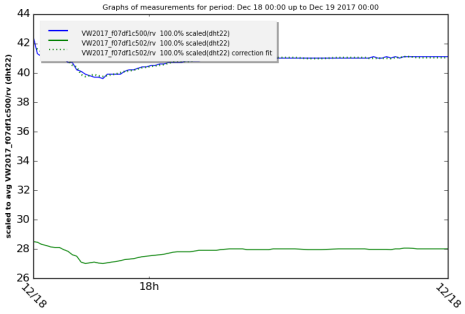
Correlation details of project VW2017 sensor kit ID f07df1c500 with project VW2017 sensor kit ID f07df1c502
Date of correlation report: Tue Dec 19 11:11:20 CET 2017
From date 2017-12-18 upto 2017-12-19 00:00
Origin of measurement time serie data from InFluxDB host: localhost
Report generated by MyRegression.py (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 MYSQL from luchtmetingen on server localhost as user teus:
Database table VW2017_f07df1c500 sensor (column) rv: 84 db records, deleted 2 NaN records.
Database table VW2017_f07df1c502 sensor (column) rv: 79 db records, deleted 1 NaN records.
Collected 83 values in sample time frame (15m/0s) for the graph. Skipped 1 db records, could not find any value(s) in same sample interval.

Samples period: Dec 18 00:00 up to Dec 19 2017 00:00, interval timing 15m:0s.

Data from table/sheet VW2017_f07df1c502, sensor (column) rv:



number 83, min=27.00, max=28.50

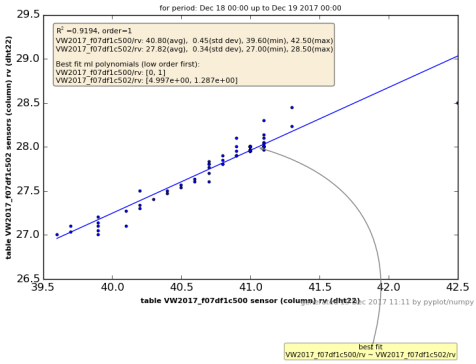
avg=27.82, std dev= 0.34

R-squared (R^2) with VW2017_f07df1c502/rv: 0.9194

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

VW2017_f07df1c500/rv (dht22)-> best fit coefficients:

4.997e+00, 1.287e+00



Statistical summary linear regression for VW2017_f07df1c500/rv with ['VW2017_f07df1c502/rv']:

OLS Regression Results

Dep. Variable:	VW2017_f07df1c500/rv	**R-squared:**	0.919
Model:	OLS	**Adj. R-squared:**	0.918
Method:	Least Squares	**F-statistic:**	923.4
Date:	Tue, 19 Dec 2017	**Prob (F-statistic):**	4.79e-46
Time:	11:11:20	**Log-Likelihood:**	52.837
No. Observations:	83	**AIC:**	-101.7
Df Residuals:	81	**BIC:**	-96.84
Df Model:	1		

	coef	**std err**	**t**	**P>|t|**	**[95.0% Conf. Int.]**	
VW2017_f07df1c502/rv	4.9966	1.178	4.241	0.000	2.652	7.341

Omnibus:	81.975	**Durbin-Watson:**	1.673
Prob(Omnibus):	0.000	**Jarque-Bera (JB):**	1349.801
Skew:	2.728	**Prob(JB):**	7.84e-294
Kurtosis:	21.988	**Cond. No.**	2.31e+03

Table of Contents

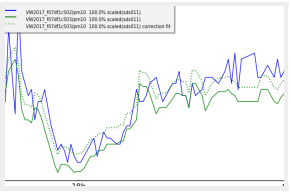
Summary of correlations of sensor kits and sensor modules

Sensorkits: VW2017_f07df1c502 VW2017_f07df1c503
Report generated on: Tue Dec 19 11:11:26 CET 2017

R-square and statistical summary

Measurement PM10 correlation key values

Correlation 1 - **PM10** - kit VW2017_f07df1c502 sensor type **SDS011** with kit VW2017_f07df1c503 sensor type **SDS011**:

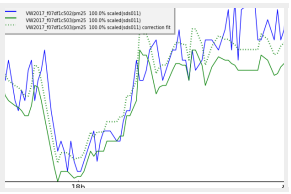


nr samples 74, min= 2.13, max= 4.00
avg= 3.06, std dev= 0.49
R-squared:
0.6707

Best fit polynomial coefficients:
[4.103e-01, 9.471e-01]

Measurement PM2.5 correlation key values

Correlation 2 - **PM2.5** - kit VW2017_f07df1c502 sensor type **SDS011** with kit VW2017_f07df1c503 sensor type **SDS011**:



nr samples 74, min= 2.00, max= 3.30
avg= 2.79, std dev= 0.40
R-squared:
0.7814

Best fit polynomial coefficients:
[1.447e-01, 1.019e+00]

Measurement TEMP correlation key values

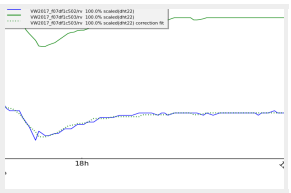
Correlation 3 - **TEMP** - kit VW2017_f07df1c502 sensor type **DHT22** with kit VW2017_f07df1c503 sensor type **DHT22**:

nr samples 73, min=22.80, max=24.15
avg=23.25, std dev= 0.41
R-squared:
0.9846

Best fit polynomial coefficients:
[2.567e+00, 9.328e-01]

Measurement RH correlation key values

Correlation 4 - **RH** - kit VW2017_f07df1c502 sensor type **DHT22** with kit VW2017_f07df1c503 sensor type **DHT22**:



nr samples 73, min=30.93, max=32.90
avg=31.96, std dev= 0.40
R-squared:
0.9424

Best fit polynomial coefficients:
[1.073e+00, 8.364e-01]

Sensor sds011@VW2017_f07df1c502 with sensor sds011@VW2017_f07df1c503

correlation report for pm10 (raw) measurements

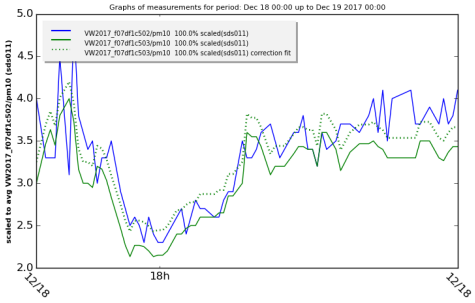
Correlation details of project VW2017 sensor kit ID f07df1c502 with project VW2017 sensor kit ID f07df1c503
Date of correlation report: Tue Dec 19 11:11:24 CET 2017
From date 2017-12-18 upto 2017-12-19 00:00
Origin of measurement time serie data from InFluxDB host: localhost
Report generated by MyRegression.py (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 MYSQL from luchtmetingen on server localhost as user teus:
Database table VW2017_f07df1c502 sensor (column) pm10: 80 db records, deleted 0 NaN records.
Auto interval samples is (re)set to 1256 (avg+2*stddev)
Database table VW2017_f07df1c503 sensor (column) pm10: 55 db records, deleted 0 NaN records.
Collected 74 values in sample time frame (20m/56s) for the graph. Skipped 6 db records, could not find any value(s) in same sample interval.

Samples period: Dec 18 00:00 up to Dec 19 2017 00:00, interval timing 20m:56s.

Data from table/sheet VW2017_f07df1c503, sensor (column) pm10:



number 74, min= 2.13, max= 4.00

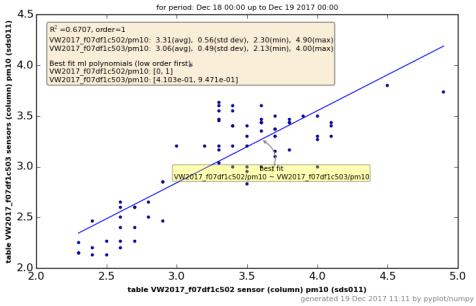
avg= 3.06, std dev= 0.49

R-squared (R^2) with VW2017_f07df1c503/pm10: 0.6707

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

VW2017_f07df1c502/pm10 (sds011)-> best fit coefficients:

4.103e-01, 9.471e-01



Statistical summary linear regression for VW2017_f07df1c502/pm10 with ['VW2017_f07df1c503/pm10']:

OLS Regression Results

Dep. Variable:	VW2017_f07df1c502/pm10	**R-squared:**	0.671
Model:	OLS	**Adj. R-squared:**	0.666
Method:	Least Squares	**F-statistic:**	146.6
Date:	Tue, 19 Dec 2017	**Prob (F-statistic):**	4.90e-19
Time:	11:11:24	**Log-Likelihood:**	-21.457
No. Observations:	74	**AIC:**	46.91
Df Residuals:	72	**BIC:**	51.52
Df Model:	1		

	coef	**std err**	**t**	**P>|t|**	**[95.0% Conf. Int.]**	
VW2017_f07df1c503/pm10	0.4103	0.242	1.693	0.095	-0.073	0.893

Omnibus:	4.212	**Durbin-Watson:**	1.810
Prob(Omnibus):	0.122	**Jarque-Bera (JB):**	5.073
Skew:	0.023	**Prob(JB):**	0.0791
Kurtosis:	4.282	**Cond. No.**	21.7

Sensor sds011@VW2017_f07df1c502 with sensor sds011@VW2017_f07df1c503

correlation report for pm25 (raw) measurements

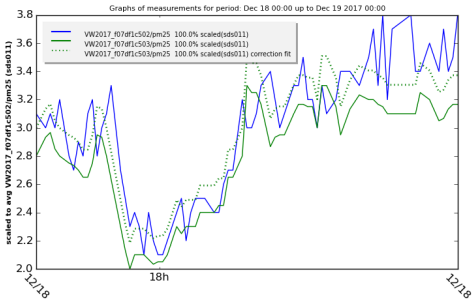
Correlation details of project VW2017 sensor kit ID f07df1c502 with project VW2017 sensor kit ID f07df1c503
Date of correlation report: Tue Dec 19 11:11:26 CET 2017
From date 2017-12-18 upto 2017-12-19 00:00
Origin of measurement time serie data from InFluxDB host: localhost
Report generated by MyRegression.py (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 MYSQL from luchtmetingen on server localhost as user teus:
Database table VW2017_f07df1c502 sensor (column) pm25: 80 db records, deleted 0 NaN records.
Auto interval samples is (re)set to 1256 (avg+2*stddev)
Database table VW2017_f07df1c503 sensor (column) pm25: 55 db records, deleted 0 NaN records.
Collected 74 values in sample time frame (20m/56s) for the graph. Skipped 6 db records, could not find any value(s) in same sample interval.

Samples period: Dec 18 00:00 up to Dec 19 2017 00:00, interval timing 20m:56s.

Data from table/sheet VW2017_f07df1c503, sensor (column) pm25:



number 74, min= 2.00, max= 3.30

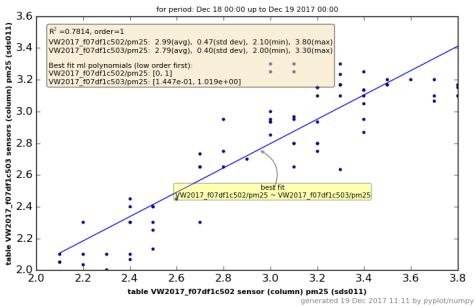
avg= 2.79, std dev= 0.40

R-squared (R^2) with VW2017_f07df1c503/pm25: 0.7814

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

VW2017_f07df1c502/pm25 (sds011)-> best fit coefficients:

1.447e-01, 1.019e+00



Statistical summary linear regression for VW2017_f07df1c502/pm25 with ['VW2017_f07df1c503/pm25']:

OLS Regression Results

Dep. Variable:	VW2017_f07df1c502/pm25	**R-squared:**	0.781
Model:	OLS	**Adj. R-squared:**	0.778
Method:	Least Squares	**F-statistic:**	257.3
Date:	Tue, 19 Dec 2017	**Prob (F-statistic):**	1.79e-25
Time:	11:11:26	**Log-Likelihood:**	7.8871
No. Observations:	74	**AIC:**	-11.77
Df Residuals:	72	**BIC:**	-7.166
Df Model:	1		

	coef	**std err**	**t**	**P>|t|**	**[95.0% Conf. Int.]**
VW2017_f07df1c503/pm25	0.1447	0.179	0.809	0.421	-0.212 0.501

Omnibus:	0.892	**Durbin-Watson:**	1.328
Prob(Omnibus):	0.640	**Jarque-Bera (JB):**	0.807
Skew:	0.249	**Prob(JB):**	0.668
Kurtosis:	2.882	**Cond. No.**	22.1

Sensor dht22@VW2017_f07df1c502 with sensor dht22@VW2017_f07df1c503

correlation report for temp (raw) measurements

Correlation details of project VW2017 sensor kit ID f07df1c502 with project VW2017 sensor kit ID f07df1c503
Date of correlation report: Tue Dec 19 11:11:28 CET 2017
From date 2017-12-18 upto 2017-12-19 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 MYSQL from luchtmetingen on server localhost as user teus:
Database table VW2017_f07df1c502 sensor (column) temp: 79 db records, deleted 1 NaN records.
Auto interval samples is (re)set to 1256 (avg+2*stddev)
Database table VW2017_f07df1c503 sensor (column) temp: 55 db records, deleted 0 NaN records.
Collected 73 values in sample time frame (20m/56s) for the graph. Skipped 6 db records, could not find any value(s) in same sample interval.

Samples period: Dec 18 00:00 up to Dec 19 2017 00:00, interval timing 20m:56s.

Data from table/sheet VW2017_f07df1c503, sensor (column) temp:

number 73, min=22.80, max=24.15

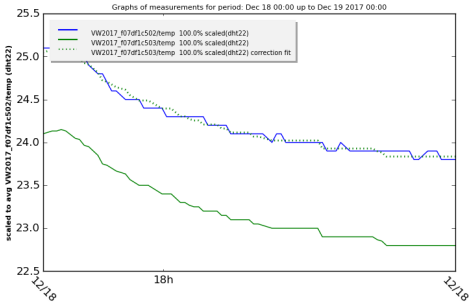
avg=23.25, std dev= 0.41

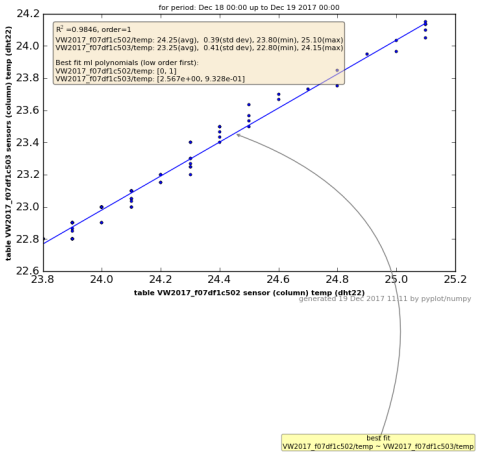
R-squared (R^2) with VW2017_f07df1c503/temp: 0.9846

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

VW2017_f07df1c502/temp (dht22)-> best fit coefficients:

2.567e+00, 9.328e-01





Statistical summary linear regression for VW2017_f07df1c502/temp with ['VW2017_f07df1c503/temp']:

OLS Regression Results

Dep. Variable:	VW2017_f07df1c502/temp	**R-squared:**	0.985
Model:	OLS	**Adj. R-squared:**	0.984
Method:	Least Squares	**F-statistic:**	4547.
Date:	Tue, 19 Dec 2017	**Prob (F-statistic):**	4.07e-66
Time:	11:11:28	**Log-Likelihood:**	118.02
No. Observations:	73	**AIC:**	-232.0
Df Residuals:	71	**BIC:**	-227.4
Df Model:	1		

	coef	**std err**	**t**	**P>|t|**	**[95.0% Conf. Int.]**	
VW2017_f07df1c503/temp	2.5671	0.322	7.980	0.000	1.926	3.209

Omnibus:	0.500	**Durbin-Watson:**	1.229
Prob(Omnibus):	0.779	**Jarque-Bera (JB):**	0.630
Skew:	0.038	**Prob(JB):**	0.730
Kurtosis:	2.551	**Cond. No.**	1.31e+03

Sensor dht22@VW2017_f07df1c502 with sensor dht22@VW2017_f07df1c503

correlation report for rh (raw) measurements

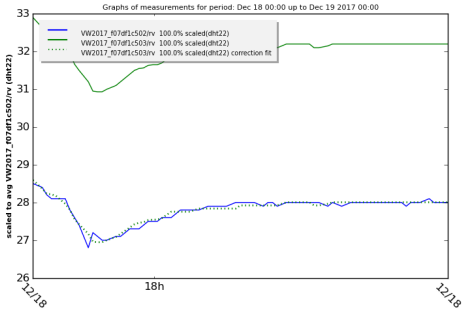
Correlation details of project VW2017 sensor kit ID f07df1c502 with project VW2017 sensor kit ID f07df1c503
Date of correlation report: Tue Dec 19 11:11:30 CET 2017
From date 2017-12-18 upto 2017-12-19 00:00
Origin of measurement time serie data from InFluxDB host: localhost
Report generated by MyRegression.py (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 MYSQL from luchtmetingen on server localhost as user teus:
Database table VW2017_f07df1c502 sensor (column) rv: 79 db records, deleted 1 NaN records.
Auto interval samples is (re)set to 1256 (avg+2*stddev)
Database table VW2017_f07df1c503 sensor (column) rv: 55 db records, deleted 0 NaN records.
Collected 73 values in sample time frame (20m/56s) for the graph. Skipped 6 db records, could not find any value(s) in same sample interval.

Samples period: Dec 18 00:00 up to Dec 19 2017 00:00, interval timing 20m:56s.

Data from table/sheet VW2017_f07df1c503, sensor (column) rv:



number 73, min=30.93, max=32.90

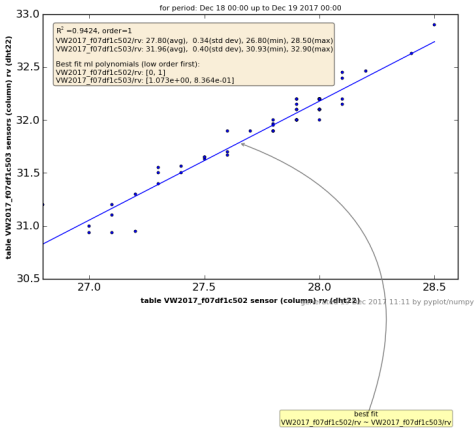
avg=31.96, std dev= 0.40

R-squared (R^2) with VW2017_f07df1c503/rv: 0.9424

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

VW2017_f07df1c502/rv (dht22)-> best fit coefficients:

1.073e+00, 8.364e-01



Statistical summary linear regression for VW2017_f07df1c502/rv with ['VW2017_f07df1c503/rv']:

OLS Regression Results

Dep. Variable:	VW2017_f07df1c502/rv	**R-squared:**	0.942
Model:	OLS	**Adj. R-squared:**	0.942
Method:	Least Squares	**F-statistic:**	1162.
Date:	Tue, 19 Dec 2017	**Prob (F-statistic):**	9.60e-46
Time:	11:11:30	**Log-Likelihood:**	78.617
No. Observations:	73	**AIC:**	-153.2
Df Residuals:	71	**BIC:**	-148.7
Df Model:	1		

	coef	**std err**	**t**	**P>|t|**	**[95.0% Conf. Int.]**	
VW2017_f07df1c503/rv	1.0733	0.784	1.369	0.175	-0.490	2.637

Omnibus:	23.827	**Durbin-Watson:**	1.697
Prob(Omnibus):	0.000	**Jarque-Bera (JB):**	77.022
Skew:	-0.875	**Prob(JB):**	1.88e-17
Kurtosis:	7.718	**Cond. No.**	2.56e+03

Table of Contents

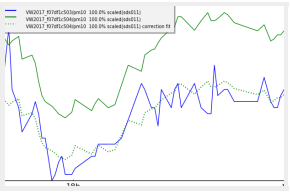
Summary of correlations of sensor kits and sensor modules

Sensorkits: VW2017_f07df1c503 VW2017_f07df1c504
Report generated on: Tue Dec 19 11:11:36 CET 2017

R-square and statistical summary

Measurement PM10 correlation key values

Correlation 1 - **PM10** - kit VW2017_f07df1c503 sensor type **SDS011** with kit VW2017_f07df1c504 sensor type **SDS011**:

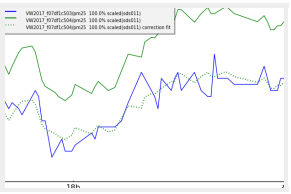


nr samples 55, min= 3.03, max= 4.77
avg= 4.05, std dev= 0.56
R-squared:
0.6283

Best fit polynomial coefficients:
[8.795e-02, 7.450e-01]

Measurement PM2.5 correlation key values

Correlation 2 - **PM2.5** - kit VW2017_f07df1c503 sensor type **SDS011** with kit VW2017_f07df1c504 sensor type **SDS011**:



nr samples 55, min= 2.83, max= 4.37
avg= 3.70, std dev= 0.50
R-squared:
0.7492

Best fit polynomial coefficients:
[1.545e-01, 7.205e-01]

Measurement TEMP correlation key values

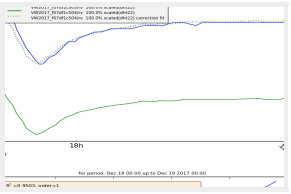
Correlation 3 - **TEMP** - kit VW2017_f07df1c503 sensor type **DHT22** with kit VW2017_f07df1c504 sensor type **DHT22**:

nr samples 55, min=22.60, max=24.05
avg=23.04, std dev= 0.43
R-squared:
0.9748

Best fit polynomial coefficients:
[3.807e-01, 9.928e-01]

Measurement RH correlation key values

Correlation 4 - **RH** - kit VW2017_f07df1c503 sensor type **DHT22** with kit VW2017_f07df1c504 sensor type **DHT22**:



nr samples 55, min=28.70, max=30.13
avg=29.58, std dev= 0.36
R-squared:
0.9503

Best fit polynomial coefficients:
[-2.799e+00, 1.175e+00]

Sensor sds011@VW2017_f07df1c503 with sensor sds011@VW2017_f07df1c504

correlation report for pm10 (raw) measurements

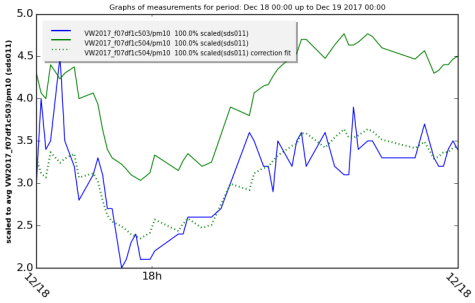
Correlation details of project VW2017 sensor kit ID f07df1c503 with project VW2017 sensor kit ID f07df1c504
Date of correlation report: Tue Dec 19 11:11:35 CET 2017
From date 2017-12-18 upto 2017-12-19 00:00
Origin of measurement time serie data from InFluxDB host: localhost
Report generated by MyRegression.py (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 MYSQL from luchtmetingen on server localhost as user teus:
Auto interval samples is (re)set to 1256 (avg+2*stddev)
Database table VW2017_f07df1c503 sensor (column) pm10: 55 db records, deleted 0 NaN records.
Database table VW2017_f07df1c504 sensor (column) pm10: 83 db records, deleted 0 NaN records.
Collected 55 values in sample time frame (20m/56s) for the graph.

Samples period: Dec 18 00:00 up to Dec 19 2017 00:00, interval timing 20m:56s.

Data from table/sheet VW2017_f07df1c504, sensor (column) pm10:



number 55, min= 3.03, max= 4.77

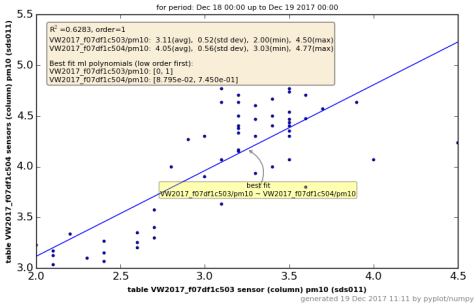
avg= 4.05, std dev= 0.56

R-squared (R^2) with VW2017_f07df1c504/pm10: 0.6283

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

VW2017_f07df1c503/pm10 (sds011)-> best fit coefficients:

8.795e-02, 7.450e-01



Statistical summary linear regression for VW2017_f07df1c503/pm10 with ['VW2017_f07df1c504/pm10']:

OLS Regression Results

Dep. Variable:	VW2017_f07df1c503/pm10	**R-squared:**	0.628
Model:	OLS	**Adj. R-squared:**	0.621
Method:	Least Squares	**F-statistic:**	89.59
Date:	Tue, 19 Dec 2017	**Prob (F-statistic):**	5.55e-13
Time:	11:11:35	**Log-Likelihood:**	-15.220
No. Observations:	55	**AIC:**	34.44
Df Residuals:	53	**BIC:**	38.46
Df Model:	1		

	coef	**std err**	**t**	**P>|t|**	**[95.0% Conf. Int.]**	
VW2017_f07df1c504/pm10	0.0879	0.322	0.273	0.786	-0.558	0.733

Omnibus:	24.468	**Durbin-Watson:**	1.518
Prob(Omnibus):	0.000	**Jarque-Bera (JB):**	45.624
Skew:	1.391	**Prob(JB):**	1.24e-10
Kurtosis:	6.489	**Cond. No.**	31.8

Sensor sds011@VW2017_f07df1c503 with sensor sds011@VW2017_f07df1c504

correlation report for pm25 (raw) measurements

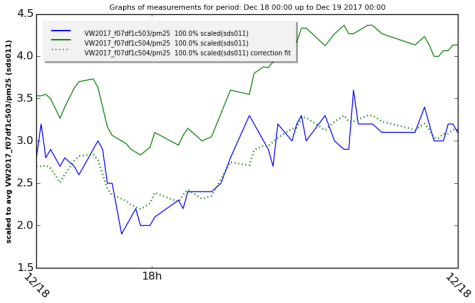
Correlation details of project VW2017 sensor kit ID f07df1c503 with project VW2017 sensor kit ID f07df1c504
Date of correlation report: Tue Dec 19 11:11:36 CET 2017
From date 2017-12-18 upto 2017-12-19 00:00
Origin of measurement time serie data from InFluxDB host: localhost
Report generated by MyRegression.py (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 MYSQL from luchtmetingen on server localhost as user teus:
Auto interval samples is (re)set to 1256 (avg+2*stddev)
Database table VW2017_f07df1c503 sensor (column) pm25: 55 db records, deleted 0 NaN records.
Database table VW2017_f07df1c504 sensor (column) pm25: 83 db records, deleted 0 NaN records.
Collected 55 values in sample time frame (20m/56s) for the graph.

Samples period: Dec 18 00:00 up to Dec 19 2017 00:00, interval timing 20m:56s.

Data from table/sheet VW2017_f07df1c504, sensor (column) pm25:



number 55, min= 2.83, max= 4.37

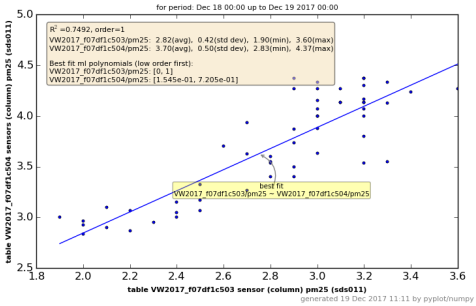
avg= 3.70, std dev= 0.50

R-squared (R^2) with VW2017_f07df1c504/pm25: 0.7492

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

VW2017_f07df1c503/pm25 (sds011)-> best fit coefficients:

1.545e-01, 7.205e-01



Statistical summary linear regression for VW2017_f07df1c503/pm25 with ['VW2017_f07df1c504/pm25']:

OLS Regression Results

Dep. Variable:	VW2017_f07df1c503/pm25	**R-squared:**	0.749
Model:	OLS	**Adj. R-squared:**	0.745
Method:	Least Squares	**F-statistic:**	158.4
Date:	Tue, 19 Dec 2017	**Prob (F-statistic):**	1.51e-17
Time:	11:11:37	**Log-Likelihood:**	8.3414
No. Observations:	55	**AIC:**	-12.68
Df Residuals:	53	**BIC:**	-8.668
Df Model:	1		

	coef	**std err**	**t**	**P>|t|**	**[95.0% Conf. Int.]**	
VW2017_f07df1c504/pm25	0.1545	0.214	0.723	0.473	-0.274	0.583

Omnibus:	1.943	**Durbin-Watson:**	1.399
Prob(Omnibus):	0.379	**Jarque-Bera (JB):**	1.227
Skew:	0.338	**Prob(JB):**	0.541
Kurtosis:	3.279	**Cond. No.**	29.9

Sensor dht22@VW2017_f07df1c503 with sensor dht22@VW2017_f07df1c504

correlation report for temp (raw) measurements

Correlation details of project VW2017 sensor kit ID f07df1c503 with project VW2017 sensor kit ID f07df1c504
Date of correlation report: Tue Dec 19 11:11:38 CET 2017
From date 2017-12-18 upto 2017-12-19 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 MYSQL from luchtmetingen on server localhost as user teus:
Auto interval samples is (re)set to 1256 (avg+2*stddev)
Database table VW2017_f07df1c503 sensor (column) temp: 55 db records, deleted 0 NaN records.
Database table VW2017_f07df1c504 sensor (column) temp: 83 db records, deleted 0 NaN records.
Collected 55 values in sample time frame (20m/56s) for the graph.

Samples period: Dec 18 00:00 up to Dec 19 2017 00:00, interval timing 20m:56s.

Data from table/sheet VW2017_f07df1c504, sensor (column) temp:

number 55, min=22.60, max=24.05

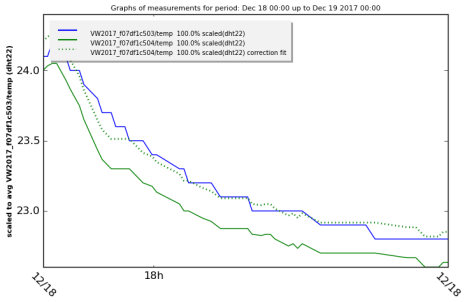
avg=23.04, std dev= 0.43

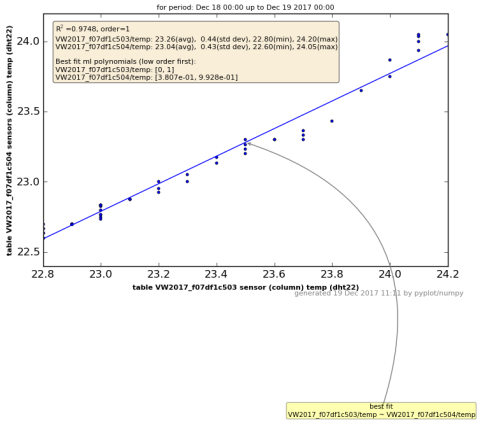
R-squared (R^2) with VW2017_f07df1c504/temp: 0.9748

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

VW2017_f07df1c503/temp (dht22)-> best fit coefficients:

3.807e-01, 9.928e-01





Statistical summary linear regression for VW2017_f07df1c503/temp with ['VW2017_f07df1c504/temp']:

OLS Regression Results

Dep. Variable:	VW2017_f07df1c503/temp	**R-squared:**	0.975
Model:	OLS	**Adj. R-squared:**	0.974
Method:	Least Squares	**F-statistic:**	2050.
Date:	Tue, 19 Dec 2017	**Prob (F-statistic):**	4.79e-44
Time:	11:11:39	**Log-Likelihood:**	68.893
No. Observations:	55	**AIC:**	-133.8
Df Residuals:	53	**BIC:**	-129.8
Df Model:	1		

	coef	**std err**	**t**	**P>|t|**	**[95.0% Conf. Int.]**	
VW2017_f07df1c504/temp	0.3807	0.505	0.753	0.455	-0.633	1.394

Omnibus:	2.784	**Durbin-Watson:**	0.520
Prob(Omnibus):	0.249	**Jarque-Bera (JB):**	1.863
Skew:	0.383	**Prob(JB):**	0.394
Kurtosis:	3.476	**Cond. No.**	1.23e+03

Sensor dht22@VW2017_f07df1c503 with sensor dht22@VW2017_f07df1c504

correlation report for rh (raw) measurements

Correlation details of project VW2017 sensor kit ID f07df1c503 with project VW2017 sensor kit ID f07df1c504
Date of correlation report: Tue Dec 19 11:11:40 CET 2017
From date 2017-12-18 upto 2017-12-19 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 MYSQL from luchtmetingen on server localhost as user teus:
Auto interval samples is (re)set to 1256 (avg+2*stddev)
Database table VW2017_f07df1c503 sensor (column) rv: 55 db records, deleted 0 NaN records.
Database table VW2017_f07df1c504 sensor (column) rv: 83 db records, deleted 0 NaN records.
Collected 55 values in sample time frame (20m/56s) for the graph.

Samples period: Dec 18 00:00 up to Dec 19 2017 00:00, interval timing 20m:56s.

Data from table/sheet VW2017_f07df1c504, sensor (column) rv:

number 55, min=28.70, max=30.13

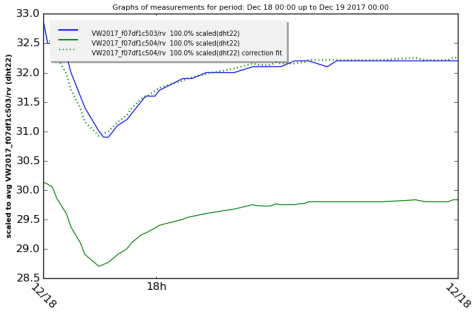
avg=29.58, std dev= 0.36

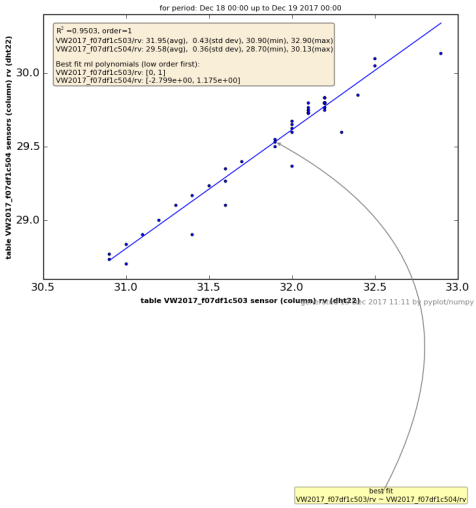
R-squared (R^2) with VW2017_f07df1c504/rv: 0.9503

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

VW2017_f07df1c503/rv (dht22)-> best fit coefficients:

-2.799e+00, 1.175e+00





Statistical summary linear regression for VW2017_f07df1c503/rv with ['VW2017_f07df1c504/rv']:

OLS Regression Results

Dep. Variable:	VW2017_f07df1c503/rv	**R-squared:**	0.950
Model:	OLS	**Adj. R-squared:**	0.949
Method:	Least Squares	**F-statistic:**	1014.
Date:	Tue, 19 Dec 2017	**Prob (F-statistic):**	3.15e-36
Time:	11:11:41	**Log-Likelihood:**	50.642
No. Observations:	55	**AIC:**	-97.28
Df Residuals:	53	**BIC:**	-93.27
Df Model:	1		

	coef	**std err**	**t**	**P>|t|**	**[95.0% Conf. Int.]**	
VW2017_f07df1c504/rv	-2.7985	1.092	-2.564	0.013	-4.988	-0.609

Omnibus:	34.599	**Durbin-Watson:**	0.620
Prob(Omnibus):	0.000	**Jarque-Bera (JB):**	69.904
Skew:	2.060	**Prob(JB):**	6.62e-16
Kurtosis:	6.679	**Cond. No.**	2.44e+03

Table of Contents

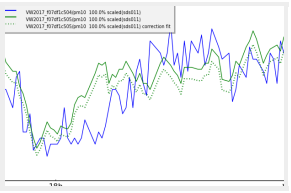
Summary of correlations of sensor kits and sensor modules

Sensorkits: VW2017_f07df1c504 VW2017_f07df1c505
Report generated on: Tue Dec 19 11:11:46 CET 2017

R-square and statistical summary

Measurement PM10 correlation key values

Correlation 1 - **PM10** - kit VW2017_f07df1c504 sensor type **SDS011** with kit VW2017_f07df1c505 sensor type **SDS011**:

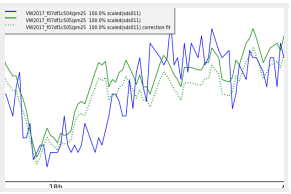


nr samples 77, min= 3.03, max= 4.97
avg= 4.18, std dev= 0.46
R-squared:
0.5091

Best fit polynomial coefficients:
[6.539e-02, 9.415e-01]

Measurement PM2.5 correlation key values

Correlation 2 - **PM2.5** - kit VW2017_f07df1c504 sensor type **SDS011** with kit VW2017_f07df1c505 sensor type **SDS011**:

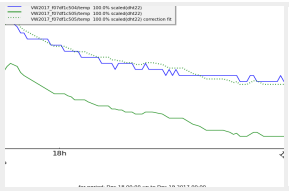


nr samples 77, min= 2.83, max= 4.60
avg= 3.88, std dev= 0.43
R-squared:
0.5057

Best fit polynomial coefficients:
[2.001e-01, 8.987e-01]

Measurement TEMP correlation key values

Correlation 3 - **TEMP** - kit VW2017_f07df1c504 sensor type **DHT22** with kit VW2017_f07df1c505 sensor type **DHT22**:



nr samples 77, min=21.70, max=22.90
avg=22.14, std dev= 0.34
R-squared:
0.8794

Best fit polynomial coefficients:
[3.117e+00, 8.957e-01]

Measurement RH correlation key values

Correlation 4 - **RH** - kit VW2017_f07df1c504 sensor type **DHT22** with kit VW2017_f07df1c505 sensor type **DHT22**:

nr samples 77, min=31.00, max=32.90
avg=32.37, std dev= 0.54
R-squared:
0.8973

Best fit polynomial coefficients:
[1.071e+01, 5.824e-01]

Sensor sds011@VW2017_f07df1c504 with sensor sds011@VW2017_f07df1c505

correlation report for pm10 (raw) measurements

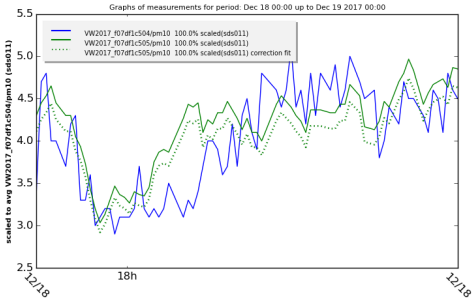
Correlation details of project VW2017 sensor kit ID f07df1c504 with project VW2017 sensor kit ID f07df1c505
Date of correlation report: Tue Dec 19 11:11:44 CET 2017
From date 2017-12-18 upto 2017-12-19 00:00
Origin of measurement time serie data from InFluxDB host: localhost
Report generated by MyRegression.py (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 MYSQL from luchtmetingen on server localhost as user teus:
Database table VW2017_f07df1c504 sensor (column) pm10: 83 db records, deleted 0 NaN records.
Database table VW2017_f07df1c505 sensor (column) pm10: 81 db records, deleted 0 NaN records.
Collected 77 values in sample time frame (15m/0s) for the graph. Skipped 6 db records, could not find any value(s) in same sample interval.

Samples period: Dec 18 00:00 up to Dec 19 2017 00:00, interval timing 15m:0s.

Data from table/sheet VW2017_f07df1c505, sensor (column) pm10:



number 77, min= 3.03, max= 4.97

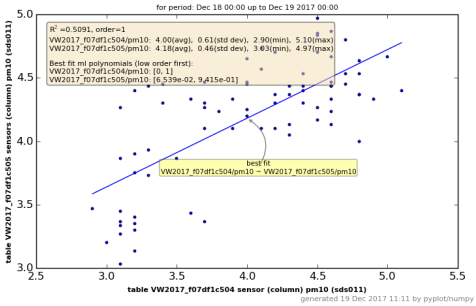
avg= 4.18, std dev= 0.46

R-squared (R^2) with VW2017_f07df1c505/pm10: 0.5091

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

VW2017_f07df1c504/pm10 (sds011)-> best fit coefficients:

6.539e-02, 9.415e-01



Statistical summary linear regression for VW2017_f07df1c504/pm10 with ['VW2017_f07df1c505/pm10']:

OLS Regression Results

Dep. Variable:	VW2017_f07df1c504/pm10	**R-squared:**	0.509
Model:	OLS	**Adj. R-squared:**	0.503
Method:	Least Squares	**F-statistic:**	77.79
Date:	Tue, 19 Dec 2017	**Prob (F-statistic):**	3.28e-13
Time:	11:11:45	**Log-Likelihood:**	-44.119
No. Observations:	77	**AIC:**	92.24
Df Residuals:	75	**BIC:**	96.93
Df Model:	1		

	coef	std err	t	P>|t|	[95.0% Conf.	Int.]
VW2017_f07df1c505/pm10	0.0654	0.449	0.146	0.885	-0.830	0.960

Omnibus:	0.512	**Durbin-Watson:**	0.976
Prob(Omnibus):	0.774	**Jarque-Bera (JB):**	0.624
Skew:	-0.176	**Prob(JB):**	0.732
Kurtosis:	2.735	**Cond. No.**	40.3

Sensor sds011@VW2017_f07df1c504 with sensor sds011@VW2017_f07df1c505

correlation report for pm25 (raw) measurements

Correlation details of project VW2017 sensor kit ID f07df1c504 with project VW2017 sensor kit ID f07df1c505
Date of correlation report: Tue Dec 19 11:11:46 CET 2017
From date 2017-12-18 upto 2017-12-19 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 MYSQL from luchtmetingen on server localhost as user teus:
Database table VW2017_f07df1c504 sensor (column) pm25: 83 db records, deleted 0 NaN records.
Database table VW2017_f07df1c505 sensor (column) pm25: 81 db records, deleted 0 NaN records.
Collected 77 values in sample time frame (15m/0s) for the graph. Skipped 6 db records, could not find any value(s) in same sample interval.

Samples period: Dec 18 00:00 up to Dec 19 2017 00:00, interval timing 15m:0s.

Data from table/sheet VW2017_f07df1c505, sensor (column) pm25:

number 77, min= 2.83, max= 4.60

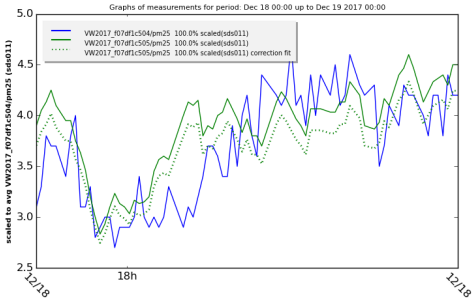
avg= 3.88, std dev= 0.43

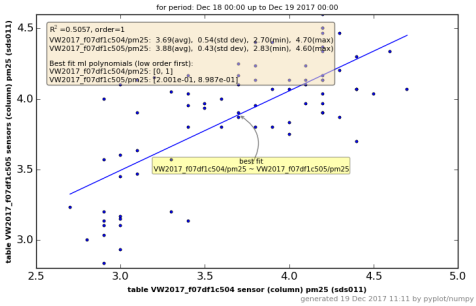
R-squared (R^2) with VW2017_f07df1c505/pm25: 0.5057

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

VW2017_f07df1c504/pm25 (sds011)-> best fit coefficients:

2.001e-01, 8.987e-01





Statistical summary linear regression for VW2017_f07df1c504/pm25 with ['VW2017_f07df1c505/pm25']:

OLS Regression Results

Dep. Variable:	VW2017_f07df1c504/pm25	**R-squared:**	0.506
Model:	OLS	**Adj. R-squared:**	0.499
Method:	Least Squares	**F-statistic:**	76.72
Date:	Tue, 19 Dec 2017	**Prob (F-statistic):**	4.27e-13
Time:	11:11:47	**Log-Likelihood:**	-34.490
No. Observations:	77	**AIC:**	72.98
Df Residuals:	75	**BIC:**	77.67
Df Model:	1		

	coef	**std err**	**t**	**P>|t|**	**[95.0% Conf. Int.]**	
VW2017_f07df1c505/pm25	0.2001	0.401	0.499	0.619	-0.598	0.998

Omnibus:	0.197	**Durbin-Watson:**	0.865
Prob(Omnibus):	0.906	**Jarque-Bera (JB):**	0.210
Skew:	-0.112	**Prob(JB):**	0.900
Kurtosis:	2.876	**Cond. No.**	38.1

Sensor dht22@VW2017_f07df1c504 with sensor dht22@VW2017_f07df1c505

correlation report for temp (raw) measurements

Correlation details of project VW2017 sensor kit ID f07df1c504 with project VW2017 sensor kit ID f07df1c505
Date of correlation report: Tue Dec 19 11:11:48 CET 2017
From date 2017-12-18 upto 2017-12-19 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 MYSQL from luchtmetingen on server localhost as user teus:
Database table VW2017_f07df1c504 sensor (column) temp: 83 db records, deleted 0 NaN records.
Database table VW2017_f07df1c505 sensor (column) temp: 80 db records, deleted 1 NaN records.
Collected 77 values in sample time frame (15m/0s) for the graph. Skipped 6 db records, could not find any value(s) in same sample interval.

Samples period: Dec 18 00:00 up to Dec 19 2017 00:00, interval timing 15m:0s.

Data from table/sheet VW2017_f07df1c505, sensor (column) temp:

number 77, min=21.70, max=22.90

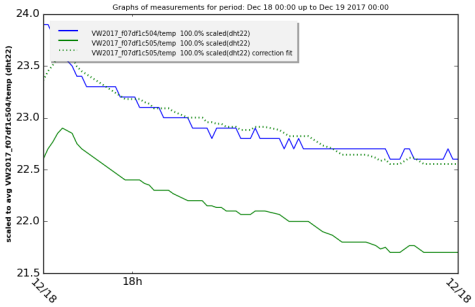
avg=22.14, std dev= 0.34

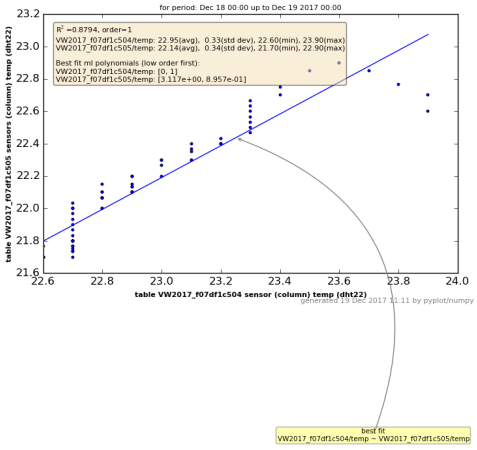
R-squared (R^2) with VW2017_f07df1c505/temp: 0.8794

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

VW2017_f07df1c504/temp (dht22)-> best fit coefficients:

3.117e+00, 8.957e-01





Statistical summary linear regression for VW2017_f07df1c504/temp with ['VW2017_f07df1c505/temp']:

OLS Regression Results

Dep. Variable:	VW2017_f07df1c504/temp	**R-squared:**	0.879
Model:	OLS	**Adj. R-squared:**	0.878
Method:	Least Squares	**F-statistic:**	546.8
Date:	Tue, 19 Dec 2017	**Prob (F-statistic):**	3.50e-36
Time:	11:11:49	**Log-Likelihood:**	58.632
No. Observations:	77	**AIC:**	-113.3
Df Residuals:	75	**BIC:**	-108.6
Df Model:	1		

	coef	std err	t	P>|t|	[95.0% Conf. Int.]	
VW2017_f07df1c505/temp	3.1167	0.848	3.675	0.000	1.427	4.806

Omnibus:	57.790	**Durbin-Watson:**	0.297
Prob(Omnibus):	0.000	**Jarque-Bera (JB):**	274.778
Skew:	2.313	**Prob(JB):**	2.15e-60
Kurtosis:	11.015	**Cond. No.**	1.44e+03

Sensor dht22@VW2017_f07df1c504 with sensor dht22@VW2017_f07df1c505

correlation report for rh (raw) measurements

Correlation details of project VW2017 sensor kit ID f07df1c504 with project VW2017 sensor kit ID f07df1c505
Date of correlation report: Tue Dec 19 11:11:50 CET 2017
From date 2017-12-18 upto 2017-12-19 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 MYSQL from luchtmetingen on server localhost as user teus:
Database table VW2017_f07df1c504 sensor (column) rv: 83 db records, deleted 0 NaN records.
Database table VW2017_f07df1c505 sensor (column) rv: 80 db records, deleted 1 NaN records.
Collected 77 values in sample time frame (15m/0s) for the graph. Skipped 6 db records, could not find any value(s) in same sample interval.

Samples period: Dec 18 00:00 up to Dec 19 2017 00:00, interval timing 15m:0s.

Data from table/sheet VW2017_f07df1c505, sensor (column) rv:

number 77, min=31.00, max=32.90

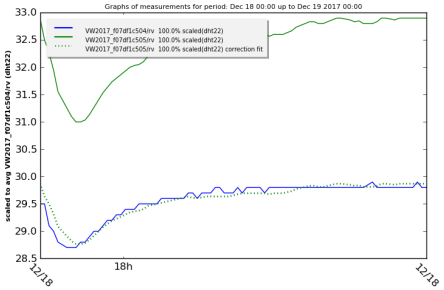
avg=32.37, std dev= 0.54

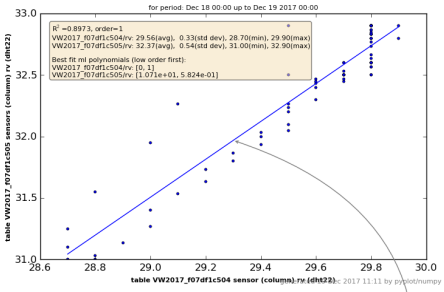
R-squared (R^2) with VW2017_f07df1c505/rv: 0.8973

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

VW2017_f07df1c504/rv (dht22)-> best fit coefficients:

1.071e+01, 5.824e-01





Statistical summary linear regression for VW2017_f07df1c504/rv with ['VW2017_f07df1c505/rv']:

OLS Regression Results

Dep. Variable:	VW2017_f07df1c504/rv	**R-squared:**	0.897
Model:	OLS	**Adj. R-squared:**	0.896
Method:	Least Squares	**F-statistic:**	655.3
Date:	Tue, 19 Dec 2017	**Prob (F-statistic):**	8.33e-39
Time:	11:11:51	**Log-Likelihood:**	62.575
No. Observations:	77	**AIC:**	-121.2
Df Residuals:	75	**BIC:**	-116.5
Df Model:	1		

	coef	std err	t	P>|t|	[95.0% Conf. Int.]	
VW2017_f07df1c505/rv	10.7090	0.737	14.538	0.000	9.242	12.176

Omnibus:	35.431	**Durbin-Watson:**	0.410
Prob(Omnibus):	0.000	**Jarque-Bera (JB):**	75.108
Skew:	-1.650	**Prob(JB):**	4.90e-17
Kurtosis:	6.539	**Cond. No.**	1.93e+03

Table of Contents

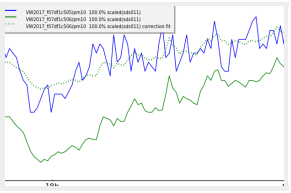
Summary of correlations of sensor kits and sensor modules

Sensorkits: VW2017_f07df1c505 VW2017_f07df1c506
Report generated on: Tue Dec 19 11:11:56 CET 2017

R-square and statistical summary

Measurement PM10 correlation key values

Correlation 1 - **PM10** - kit VW2017_f07df1c505 sensor type **SDS011** with kit VW2017_f07df1c506 sensor type **SDS011**:

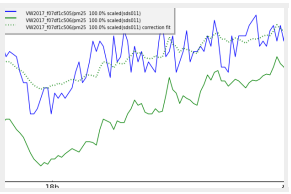


nr samples 81, min= 1.90, max= 4.20
avg= 3.05, std dev= 0.63
R-squared:
0.5510

Best fit polynomial coefficients:
[2.382e+00, 5.918e-01]

Measurement PM2.5 correlation key values

Correlation 2 - **PM2.5** - kit VW2017_f07df1c505 sensor type **SDS011** with kit VW2017_f07df1c506 sensor type **SDS011**:



nr samples 81, min= 1.80, max= 3.90
avg= 2.84, std dev= 0.58
R-squared:
0.5420

Best fit polynomial coefficients:
[2.208e+00, 5.910e-01]

Measurement TEMP correlation key values

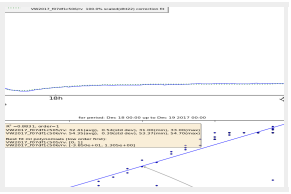
Correlation 3 - **TEMP** - kit VW2017_f07df1c505 sensor type **DHT22** with kit VW2017_f07df1c506 sensor type **DHT22**:

nr samples 80, min=23.70, max=25.00
avg=24.10, std dev= 0.34
R-squared:
0.9372

Best fit polynomial coefficients:
[-6.822e-02, 9.204e-01]

Measurement RH correlation key values

Correlation 4 - **RH** - kit VW2017_f07df1c505 sensor type **DHT22** with kit VW2017_f07df1c506 sensor type **DHT22**:



nr samples 80, min=53.37, max=54.70
avg=54.35, std dev= 0.39
R-squared:
0.8831

Best fit polynomial coefficients:
[-3.850e+01, 1.305e+00]

Sensor sds011@VW2017_f07df1c505 with sensor sds011@VW2017_f07df1c506

correlation report for pm10 (raw) measurements

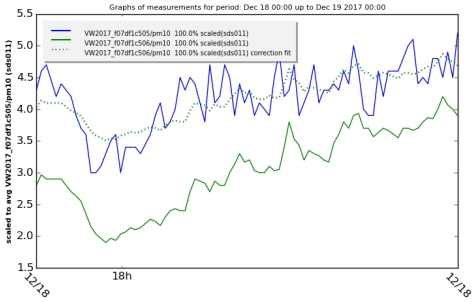
Correlation details of project VW2017 sensor kit ID f07df1c505 with project VW2017 sensor kit ID f07df1c506
Date of correlation report: Tue Dec 19 11:11:54 CET 2017
From date 2017-12-18 upto 2017-12-19 00:00
Origin of measurement time serie data from InFluxDB host: localhost
Report generated by MyRegression.py (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 MYSQL from luchtmetingen on server localhost as user teus:
Database table VW2017_f07df1c505 sensor (column) pm10: 81 db records, deleted 0 NaN records.
Database table VW2017_f07df1c506 sensor (column) pm10: 84 db records, deleted 0 NaN records.
Collected 81 values in sample time frame (15m/0s) for the graph.

Samples period: Dec 18 00:00 up to Dec 19 2017 00:00, interval timing 15m:0s.

Data from table/sheet VW2017_f07df1c506, sensor (column) pm10:



number 81, min= 1.90, max= 4.20

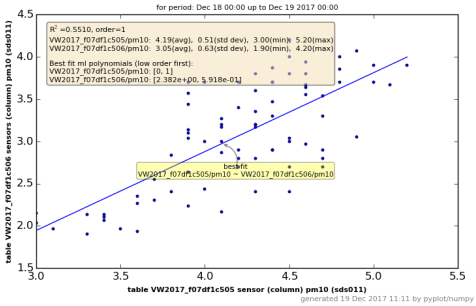
avg= 3.05, std dev= 0.63

R-squared (R²) with VW2017_f07df1c506/pm10: 0.5510

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

VW2017_f07df1c505/pm10 (sds011)-> best fit coefficients:

2.382e+00, 5.918e-01



Statistical summary linear regression for VW2017_f07df1c505/pm10 with ['VW2017_f07df1c506/pm10']:

OLS Regression Results

Dep. Variable:	VW2017_f07df1c505/pm10	**R-squared:**	0.551
Model:	OLS	**Adj. R-squared:**	0.545
Method:	Least Squares	**F-statistic:**	96.94
Date:	Tue, 19 Dec 2017	**Prob (F-statistic):**	2.20e-15
Time:	11:11:55	**Log-Likelihood:**	-27.252
No. Observations:	81	**AIC:**	58.50
Df Residuals:	79	**BIC:**	63.29
Df Model:	1		

	coef	std err	t	P>|t|	[95.0% Conf. Int.]	
VW2017_f07df1c506/pm10	2.3818	0.187	12.706	0.000	2.009	2.755

Omnibus:	1.512	**Durbin-Watson:**	1.252
Prob(Omnibus):	0.470	**Jarque-Bera (JB):**	1.429
Skew:	0.209	**Prob(JB):**	0.489
Kurtosis:	2.502	**Cond. No.**	16.9

Sensor sds011@VW2017_f07df1c505 with sensor sds011@VW2017_f07df1c506

correlation report for pm25 (raw) measurements

Correlation details of project VW2017 sensor kit ID f07df1c505 with project VW2017 sensor kit ID f07df1c506
Date of correlation report: Tue Dec 19 11:11:56 CET 2017
From date 2017-12-18 upto 2017-12-19 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 MYSQL from luchtmetingen on server localhost as user teus:
Database table VW2017_f07df1c505 sensor (column) pm25: 81 db records, deleted 0 NaN records.
Database table VW2017_f07df1c506 sensor (column) pm25: 84 db records, deleted 0 NaN records.
Collected 81 values in sample time frame (15m/0s) for the graph.

Samples period: Dec 18 00:00 up to Dec 19 2017 00:00, interval timing 15m:0s.

Data from table/sheet VW2017_f07df1c506, sensor (column) pm25:

number 81, min= 1.80, max= 3.90

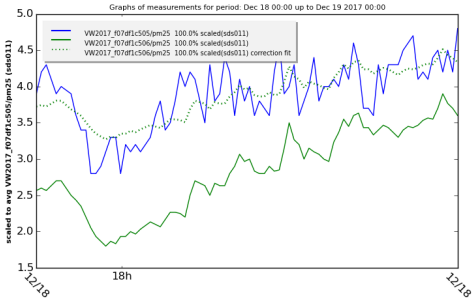
avg= 2.84, std dev= 0.58

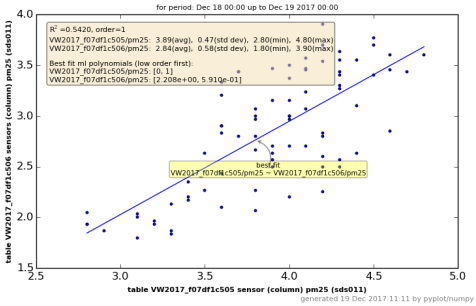
R-squared (R²) with VW2017_f07df1c506/pm25: 0.5420

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

VW2017_f07df1c505/pm25 (sds011)-> best fit coefficients:

2.208e+00, 5.910e-01





Statistical summary linear regression for VW2017_f07df1c505/pm25 with ['VW2017_f07df1c506/pm25']:

OLS Regression Results

Dep. Variable:	VW2017_f07df1c505/pm25	**R-squared:**	0.542
Model:	OLS	**Adj. R-squared:**	0.536
Method:	Least Squares	**F-statistic:**	93.47
Date:	Tue, 19 Dec 2017	**Prob (F-statistic):**	4.85e-15
Time:	11:11:56	**Log-Likelihood:**	-21.394
No. Observations:	81	**AIC:**	46.79
Df Residuals:	79	**BIC:**	51.58
Df Model:	1		

	coef	std err	t	P>|t|	[95.0% Conf. Int.]	
VW2017_f07df1c506/pm25	2.2077	0.177	12.440	0.000	1.854	2.561

Omnibus:	1.499	**Durbin-Watson:**	1.259
Prob(Omnibus):	0.473	**Jarque-Bera (JB):**	1.471
Skew:	0.234	**Prob(JB):**	0.479
Kurtosis:	2.535	**Cond. No.**	16.2

Sensor dht22@VW2017_f07df1c505 with sensor dht22@VW2017_f07df1c506

correlation report for temp (raw) measurements

Correlation details of project VW2017 sensor kit ID f07df1c505 with project VW2017 sensor kit ID f07df1c506
Date of correlation report: Tue Dec 19 11:11:58 CET 2017
From date 2017-12-18 upto 2017-12-19 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 MYSQL from luchtmetingen on server localhost as user teus:
Database table VW2017_f07df1c505 sensor (column) temp: 80 db records, deleted 1 NaN records.
Database table VW2017_f07df1c506 sensor (column) temp: 81 db records, deleted 3 NaN records.
Collected 80 values in sample time frame (15m/0s) for the graph.

Samples period: Dec 18 00:00 up to Dec 19 2017 00:00, interval timing 15m:0s.

Data from table/sheet VW2017_f07df1c506, sensor (column) temp:

number 80, min=23.70, max=25.00

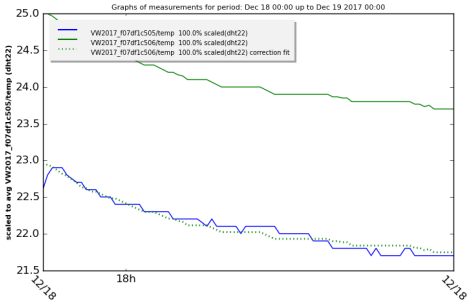
avg=24.10, std dev= 0.34

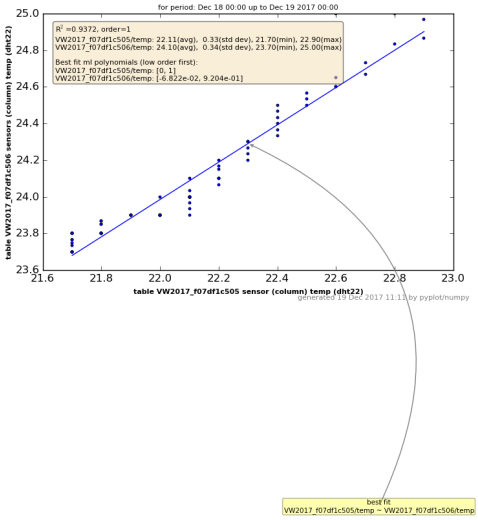
R-squared (R^2) with VW2017_f07df1c506/temp: 0.9372

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

VW2017_f07df1c505/temp (dht22)-> best fit coefficients:

-6.822e-02, 9.204e-01





Statistical summary linear regression for VW2017_f07df1c505/temp with ['VW2017_f07df1c506/temp']:

OLS Regression Results

Dep. Variable:	VW2017_f07df1c505/temp	**R-squared:**	0.937
Model:	OLS	**Adj. R-squared:**	0.936
Method:	Least Squares	**F-statistic:**	1164.
Date:	Tue, 19 Dec 2017	**Prob (F-statistic):**	1.23e-48
Time:	11:11:58	**Log-Likelihood:**	86.538
No. Observations:	80	**AIC:**	-169.1
Df Residuals:	78	**BIC:**	-164.3
Df Model:	1		

	coef	**std err**	**t**	**P>|t|**	**[95.0% Conf. Int.]**	
VW2017_f07df1c506/temp	-0.0682	0.650	-0.105	0.917	-1.362	1.226

Omnibus:	16.872	**Durbin-Watson:**	0.477
Prob(Omnibus):	0.000	**Jarque-Bera (JB):**	24.806
Skew:	-0.871	**Prob(JB):**	4.11e-06
Kurtosis:	5.099	**Cond. No.**	1.69e+03

Sensor dht22@VW2017_f07df1c505 with sensor dht22@VW2017_f07df1c506

correlation report for rh (raw) measurements

Correlation details of project VW2017 sensor kit ID f07df1c505 with project VW2017 sensor kit ID f07df1c506
Date of correlation report: Tue Dec 19 11:12:00 CET 2017
From date 2017-12-18 upto 2017-12-19 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 MYSQL from luchtmetingen on server localhost as user teus:
Database table VW2017_f07df1c505 sensor (column) rv: 80 db records, deleted 1 NaN records.
Database table VW2017_f07df1c506 sensor (column) rv: 81 db records, deleted 3 NaN records.
Collected 80 values in sample time frame (15m/0s) for the graph.

Samples period: Dec 18 00:00 up to Dec 19 2017 00:00, interval timing 15m:0s.

Data from table/sheet VW2017_f07df1c506, sensor (column) rv:

number 80, min=53.37, max=54.70

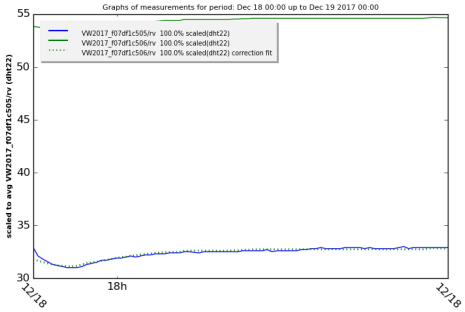
avg=54.35, std dev= 0.39

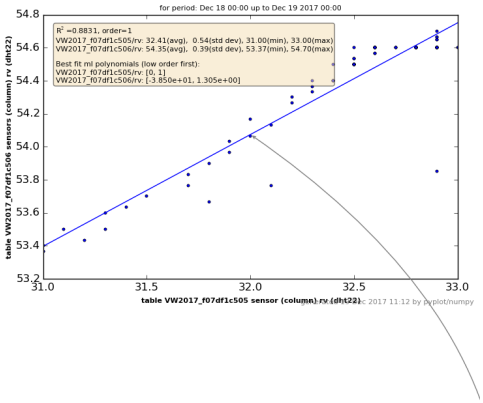
R-squared (R^2) with VW2017_f07df1c506/rv: 0.8831

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

VW2017_f07df1c505/rv (dht22)-> best fit coefficients:

-3.850e+01, 1.305e+00





Statistical summary linear regression for VW2017_f07df1c505/rv with ['VW2017_f07df1c506/rv']:

OLS Regression Results

Dep. Variable:	VW2017_f07df1c505/rv	**R-squared:**	0.883
Model:	OLS	**Adj. R-squared:**	0.882
Method:	Least Squares	**F-statistic:**	589.4
Date:	Tue, 19 Dec 2017	**Prob (F-statistic):**	4.18e-38
Time:	11:12:00	**Log-Likelihood:**	22.306
No. Observations:	80	**AIC:**	-40.61
Df Residuals:	78	**BIC:**	-35.85
Df Model:	1		

	coef	std err	t	P>|t|	[95.0% Conf. Int.]	
VW2017_f07df1c506/rv	-38.4974	2.921	-13.181	0.000	-44.312	-32.683

Omnibus:	86.666	**Durbin-Watson:**	0.349
Prob(Omnibus):	0.000	**Jarque-Bera (JB):**	1103.480
Skew:	3.252	**Prob(JB):**	2.41e-240
Kurtosis:	19.993	**Cond. No.**	7.66e+03

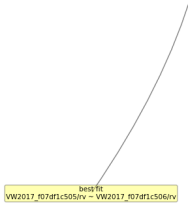


Table of Contents

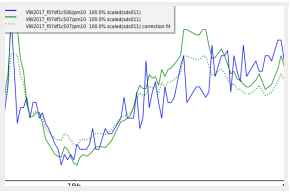
Summary of correlations of sensor kits and sensor modules

Sensorkits: VW2017_f07df1c506 VW2017_f07df1c507
Report generated on: Tue Dec 19 11:12:06 CET 2017

R-square and statistical summary

Measurement PM10 correlation key values

Correlation 1 - **PM10** - kit VW2017_f07df1c506 sensor type **SDS011** with kit VW2017_f07df1c507 sensor type **SDS011**:

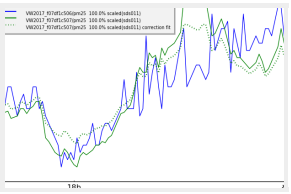


nr samples 83, min= 1.80, max= 4.47
avg= 3.13, std dev= 0.77
R-squared:
0.5623

Best fit polynomial coefficients:
[9.778e-01, 6.624e-01]

Measurement PM2.5 correlation key values

Correlation 2 - **PM2.5** - kit VW2017_f07df1c506 sensor type **SDS011** with kit VW2017_f07df1c507 sensor type **SDS011**:



nr samples 83, min= 1.70, max= 4.00
avg= 2.80, std dev= 0.66
R-squared:
0.6469

Best fit polynomial coefficients:
[8.089e-01, 7.120e-01]

Measurement TEMP correlation key values

Correlation 3 - **TEMP** - kit VW2017_f07df1c506 sensor type **DHT22** with kit VW2017_f07df1c507 sensor type **DHT22**:

nr samples 80, min=22.80, max=24.60
avg=23.33, std dev= 0.46
R-squared:
0.9568

Best fit polynomial coefficients:
[2.831e+00, 9.158e-01]

Measurement RH correlation key values

Correlation 4 - **RH** - kit VW2017_f07df1c506 sensor type **DHT22** with kit VW2017_f07df1c507 sensor type **DHT22**:

nr samples 80, min=28.40, max=29.75
avg=29.19, std dev= 0.37
R-squared:
0.9636

Best fit polynomial coefficients:
[2.350e+01, 1.056e+00]

Sensor sds011@VW2017_f07df1c506 with sensor sds011@VW2017_f07df1c507

correlation report for pm10 (raw) measurements

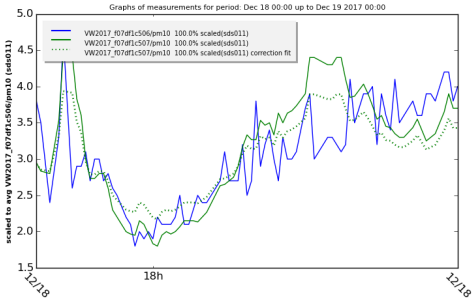
Correlation details of project VW2017 sensor kit ID f07df1c506 with project VW2017 sensor kit ID f07df1c507
Date of correlation report: Tue Dec 19 11:12:04 CET 2017
From date 2017-12-18 upto 2017-12-19 00:00
Origin of measurement time serie data from InFluxDB host: localhost
Report generated by MyRegression.py (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 MYSQL from luchtmetingen on server localhost as user teus:
Database table VW2017_f07df1c506 sensor (column) pm10: 84 db records, deleted 0 NaN records.
Database table VW2017_f07df1c507 sensor (column) pm10: 79 db records, deleted 0 NaN records.
Collected 83 values in sample time frame (15m/0s) for the graph. Skipped 1 db records, could not find any value(s) in same sample interval.

Samples period: Dec 18 00:00 up to Dec 19 2017 00:00, interval timing 15m:0s.

Data from table/sheet VW2017_f07df1c507, sensor (column) pm10:



number 83, min= 1.80, max= 4.47

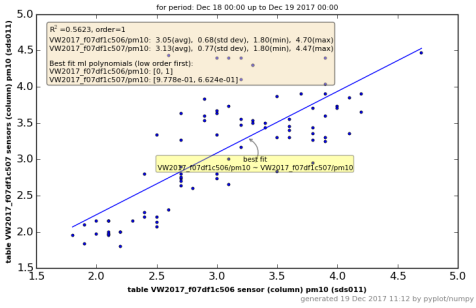
avg= 3.13, std dev= 0.77

R-squared (R²) with VW2017_f07df1c507/pm10: 0.5623

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

VW2017_f07df1c506/pm10 (sds011)-> best fit coefficients:

9.778e-01, 6.624e-01



Statistical summary linear regression for VW2017_f07df1c506/pm10 with ['VW2017_f07df1c507/pm10']:

OLS Regression Results

Dep. Variable:	VW2017_f07df1c506/pm10	**R-squared:**	0.562
Model:	OLS	**Adj. R-squared:**	0.557
Method:	Least Squares	**F-statistic:**	104.0
Date:	Tue, 19 Dec 2017	**Prob (F-statistic):**	3.44e-16
Time:	11:12:04	**Log-Likelihood:**	-51.009
No. Observations:	83	**AIC:**	106.0
Df Residuals:	81	**BIC:**	110.9
Df Model:	1		

	coef	std err	t	P>|t|	[95.0% Conf. Int.]	
VW2017_f07df1c507/pm10	0.9778	0.209	4.671	0.000	0.561	1.394

Omnibus:	0.080	**Durbin-Watson:**	1.091
Prob(Omnibus):	0.961	**Jarque-Bera (JB):**	0.191
Skew:	-0.068	**Prob(JB):**	0.909
Kurtosis:	2.808	**Cond. No.**	14.8

Sensor sds011@VW2017_f07df1c506 with sensor sds011@VW2017_f07df1c507

correlation report for pm25 (raw) measurements

Correlation details of project VW2017 sensor kit ID f07df1c506 with project VW2017 sensor kit ID f07df1c507
Date of correlation report: Tue Dec 19 11:12:06 CET 2017
From date 2017-12-18 upto 2017-12-19 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 MYSQL from luchtmetingen on server localhost as user teus:
Database table VW2017_f07df1c506 sensor (column) pm25: 84 db records, deleted 0 NaN records.
Database table VW2017_f07df1c507 sensor (column) pm25: 79 db records, deleted 0 NaN records.
Collected 83 values in sample time frame (15m/0s) for the graph. Skipped 1 db records, could not find any value(s) in same sample interval.

Samples period: Dec 18 00:00 up to Dec 19 2017 00:00, interval timing 15m:0s.

Data from table/sheet VW2017_f07df1c507, sensor (column) pm25:

number 83, min= 1.70, max= 4.00

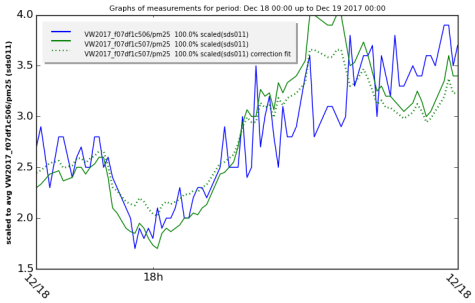
avg= 2.80, std dev= 0.66

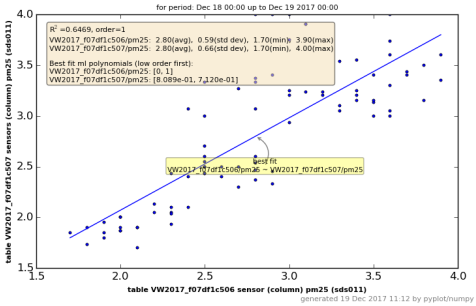
R-squared (R^2) with VW2017_f07df1c507/pm25: 0.6469

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

VW2017_f07df1c506/pm25 (sds011)-> best fit coefficients:

8.089e-01, 7.120e-01





Statistical summary linear regression for VW2017_f07df1c506/pm25 with ['VW2017_f07df1c507/pm25']:

OLS Regression Results

Dep. Variable:	VW2017_f07df1c506/pm25	**R-squared:**	0.647
Model:	OLS	**Adj. R-squared:**	0.643
Method:	Least Squares	**F-statistic:**	148.4
Date:	Tue, 19 Dec 2017	**Prob (F-statistic):**	5.34e-20
Time:	11:12:06	**Log-Likelihood:**	-30.263
No. Observations:	83	**AIC:**	64.53
Df Residuals:	81	**BIC:**	69.36
Df Model:	1		

	coef	**std err**	**t**	**P>|t|**	**[95.0% Conf. Int.]**	
VW2017_f07df1c507/pm25	0.8089	0.168	4.805	0.000	0.474	1.144

Omnibus:	0.313	**Durbin-Watson:**	0.978
Prob(Omnibus):	0.855	**Jarque-Bera (JB):**	0.490
Skew:	-0.064	**Prob(JB):**	0.783
Kurtosis:	2.646	**Cond. No.**	14.0

Sensor dht22@VW2017_f07df1c506 with sensor dht22@VW2017_f07df1c507

correlation report for temp (raw) measurements

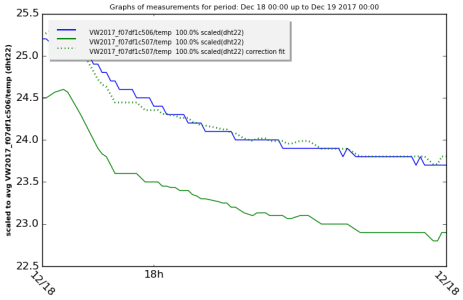
Correlation details of project VW2017 sensor kit ID f07df1c506 with project VW2017 sensor kit ID f07df1c507
Date of correlation report: Tue Dec 19 11:12:08 CET 2017
From date 2017-12-18 upto 2017-12-19 00:00
Origin of measurement time serie data from InFluxDB host: localhost
Report generated by MyRegression.py (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 MYSQL from luchtmetingen on server localhost as user teus:
Database table VW2017_f07df1c506 sensor (column) temp: 81 db records, deleted 3 NaN records.
Database table VW2017_f07df1c507 sensor (column) temp: 79 db records, deleted 0 NaN records.
Collected 80 values in sample time frame (15m/0s) for the graph. Skipped 1 db records, could not find any value(s) in same sample interval.

Samples period: Dec 18 00:00 up to Dec 19 2017 00:00, interval timing 15m:0s.

Data from table/sheet VW2017_f07df1c507, sensor (column) temp:



number 80, min=22.80, max=24.60

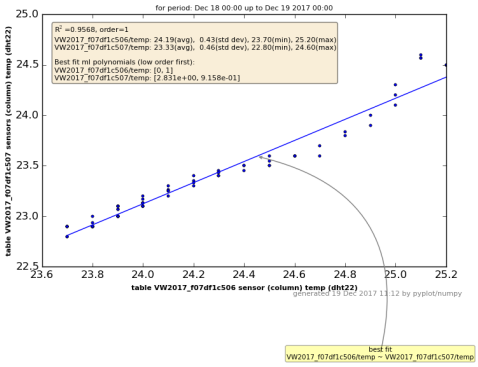
avg=23.33, std dev= 0.46

R-squared (R^2) with VW2017_f07df1c507/temp: 0.9568

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

VW2017_f07df1c506/temp (dht22)-> best fit coefficients:

2.831e+00, 9.158e-01



Statistical summary linear regression for VW2017_f07df1c506/temp with ['VW2017_f07df1c507/temp']:

OLS Regression Results

Dep. Variable:	VW2017_f07df1c506/temp	**R-squared:**	0.957
Model:	OLS	**Adj. R-squared:**	0.956
Method:	Least Squares	**F-statistic:**	1727.
Date:	Tue, 19 Dec 2017	**Prob (F-statistic):**	5.66e-55
Time:	11:12:08	**Log-Likelihood:**	79.573
No. Observations:	80	**AIC:**	-155.1
Df Residuals:	78	**BIC:**	-150.4
Df Model:	1		

	coef	**std err**	**t**	**P>|t|**	**[95.0% Conf. Int.]**	
VW2017_f07df1c507/temp	2.8306	0.514	5.505	0.000	1.807	3.854

Omnibus:	4.098	**Durbin-Watson:**	0.410
Prob(Omnibus):	0.129	**Jarque-Bera (JB):**	4.823
Skew:	0.069	**Prob(JB):**	0.0897
Kurtosis:	4.195	**Cond. No.**	1.19e+03

Sensor dht22@VW2017_f07df1c506 with sensor dht22@VW2017_f07df1c507

correlation report for rh (raw) measurements

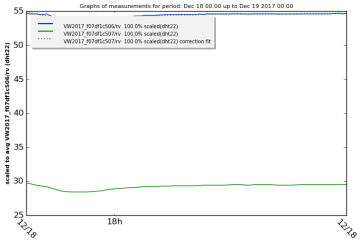
Correlation details of project VW2017 sensor kit ID f07df1c506 with project VW2017 sensor kit ID f07df1c507
Date of correlation report: Tue Dec 19 11:12:10 CET 2017
From date 2017-12-18 upto 2017-12-19 00:00
Origin of measurement time serie data from InFluxDB host: localhost
Report generated by MyRegression.py (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 MYSQL from luchtmetingen on server localhost as user teus:
Database table VW2017_f07df1c506 sensor (column) rv: 81 db records, deleted 3 NaN records.
Database table VW2017_f07df1c507 sensor (column) rv: 79 db records, deleted 0 NaN records.
Collected 80 values in sample time frame (15m/0s) for the graph. Skipped 1 db records, could not find any value(s) in same sample interval.

Samples period: Dec 18 00:00 up to Dec 19 2017 00:00, interval timing 15m:0s.

Data from table/sheet VW2017_f07df1c507, sensor (column) rv:



number 80, min=28.40, max=29.75

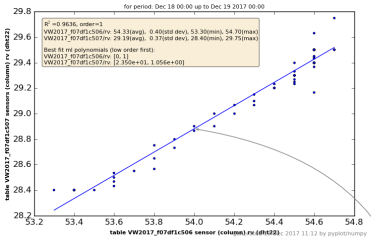
avg=29.19, std dev= 0.37

R-squared (R²) with VW2017_f07df1c507/rv: 0.9636

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

VW2017_f07df1c506/rv (dht22)-> best fit coefficients:

2.350e+01, 1.056e+00



Statistical summary linear regression for VW2017_f07df1c506/rv with ['VW2017_f07df1c507/rv']:

OLS Regression Results

Dep. Variable:	VW2017_f07df1c506/rv	**R-squared:**	0.964
Model:	OLS	**Adj. R-squared:**	0.963
Method:	Least Squares	**F-statistic:**	2064.
Date:	Tue, 19 Dec 2017	**Prob (F-statistic):**	7.12e-58
Time:	11:12:10	**Log-Likelihood:**	92.240
No. Observations:	80	**AIC:**	-180.5
Df Residuals:	78	**BIC:**	-175.7
Df Model:	1		

	coef	std err	t	P>|t|	[95.0% Conf. Int.]	
VW2017_f07df1c507/rv	23.5025	0.679	34.629	0.000	22.151	24.854

Omnibus:	9.084	**Durbin-Watson:**	0.908
Prob(Omnibus):	0.011	**Jarque-Bera (JB):**	19.323
Skew:	-0.191	**Prob(JB):**	6.37e-05
Kurtosis:	5.377	**Cond. No.**	2.29e+03

Table of Contents

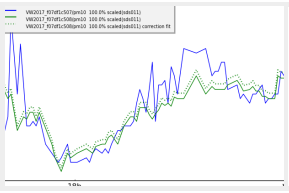
Summary of correlations of sensor kits and sensor modules

Sensorkits: VW2017_f07df1c507 VW2017_f07df1c508
Report generated on: Tue Dec 19 11:12:15 CET 2017

R-square and statistical summary

Measurement PM10 correlation key values

Correlation 1 - **PM10** - kit VW2017_f07df1c507 sensor type **SDS011** with kit VW2017_f07df1c508 sensor type **SDS011**:

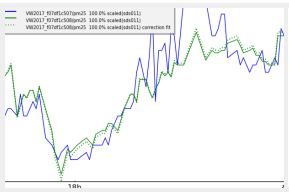


nr samples 74, min= 1.70, max= 3.85
avg= 3.01, std dev= 0.54
R-squared:
0.5551

Best fit polynomial coefficients:
[5.285e-02, 1.020e+00]

Measurement PM2.5 correlation key values

Correlation 2 - **PM2.5** - kit VW2017_f07df1c507 sensor type **SDS011** with kit VW2017_f07df1c508 sensor type **SDS011**:

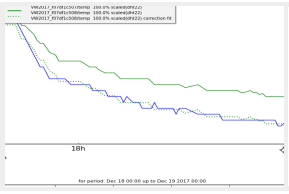


nr samples 74, min= 1.60, max= 3.55
avg= 2.79, std dev= 0.48
R-squared:
0.7005

Best fit polynomial coefficients:
[-1.967e-01, 1.071e+00]

Measurement TEMP correlation key values

Correlation 3 - **TEMP** - kit VW2017_f07df1c507 sensor type **DHT22** with kit VW2017_f07df1c508 sensor type **DHT22**:



nr samples 74, min=23.30, max=24.70
avg=23.75, std dev= 0.44
R-squared:
0.9862

Best fit polynomial coefficients:
[-5.063e+00, 1.197e+00]

Measurement RH correlation key values

Correlation 4 - **RH** - kit VW2017_f07df1c507 sensor type **DHT22** with kit VW2017_f07df1c508 sensor type **DHT22**:

nr samples 74, min=29.00, max=30.40
avg=29.84, std dev= 0.33
R-squared:
0.8919

Best fit polynomial coefficients:
[-2.750e+00, 1.071e+00]

Sensor sds011@VW2017_f07df1c507 with sensor sds011@VW2017_f07df1c508

correlation report for pm10 (raw) measurements

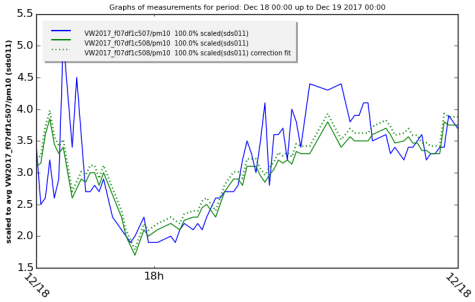
Correlation details of project VW2017 sensor kit ID f07df1c507 with project VW2017 sensor kit ID f07df1c508
Date of correlation report: Tue Dec 19 11:12:14 CET 2017
From date 2017-12-18 upto 2017-12-19 00:00
Origin of measurement time serie data from InFluxDB host: localhost
Report generated by MyRegression.py (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 MYSQL from luchtmetingen on server localhost as user teus:
Database table VW2017_f07df1c507 sensor (column) pm10: 79 db records, deleted 0 NaN records.
Database table VW2017_f07df1c508 sensor (column) pm10: 72 db records, deleted 0 NaN records.
Collected 74 values in sample time frame (15m/0s) for the graph. Skipped 5 db records, could not find any value(s) in same sample interval.

Samples period: Dec 18 00:00 up to Dec 19 2017 00:00, interval timing 15m:0s.

Data from table/sheet VW2017_f07df1c508, sensor (column) pm10:



number 74, min= 1.70, max= 3.85

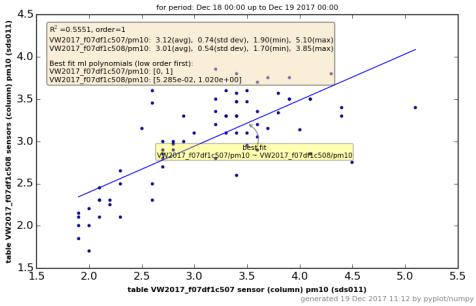
avg= 3.01, std dev= 0.54

R-squared (R^2) with VW2017_f07df1c508/pm10: 0.5551

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

VW2017_f07df1c507/pm10 (sds011)-> best fit coefficients:

5.285e-02, 1.020e+00



Statistical summary linear regression for VW2017_f07df1c507/pm10 with ['VW2017_f07df1c508/pm10']:

OLS Regression Results

Dep. Variable:	VW2017_f07df1c507/pm10	**R-squared:**	0.555
Model:	OLS	**Adj. R-squared:**	0.549
Method:	Least Squares	**F-statistic:**	89.84
Date:	Tue, 19 Dec 2017	**Prob (F-statistic):**	2.71e-14
Time:	11:12:14	**Log-Likelihood:**	-52.682
No. Observations:	74	**AIC:**	109.4
Df Residuals:	72	**BIC:**	114.0
Df Model:	1		

	coef	**std err**	**t**	**P>|t|**	**[95.0% Conf.**	**Int.]**
VW2017_f07df1c508/pm10	0.0529	0.329	0.161	0.873	-0.603	0.709

Omnibus:	16.979	**Durbin-Watson:**	1.069
Prob(Omnibus):	0.000	**Jarque-Bera (JB):**	22.558
Skew:	0.980	**Prob(JB):**	1.26e-05
Kurtosis:	4.864	**Cond. No.**	19.1

Sensor sds011@VW2017_f07df1c507 with sensor sds011@VW2017_f07df1c508

correlation report for pm25 (raw) measurements

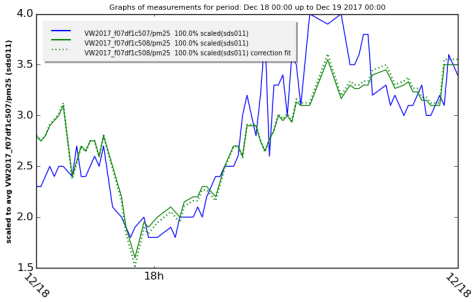
Correlation details of project VW2017 sensor kit ID f07df1c507 with project VW2017 sensor kit ID f07df1c508
Date of correlation report: Tue Dec 19 11:12:15 CET 2017
From date 2017-12-18 upto 2017-12-19 00:00
Origin of measurement time serie data from InFluxDB host: localhost
Report generated by MyRegression.py (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 MYSQL from luchtmetingen on server localhost as user teus:
Database table VW2017_f07df1c507 sensor (column) pm25: 79 db records, deleted 0 NaN records.
Database table VW2017_f07df1c508 sensor (column) pm25: 72 db records, deleted 0 NaN records.
Collected 74 values in sample time frame (15m/0s) for the graph. Skipped 5 db records, could not find any value(s) in same sample interval.

Samples period: Dec 18 00:00 up to Dec 19 2017 00:00, interval timing 15m:0s.

Data from table/sheet VW2017_f07df1c508, sensor (column) pm25:



number 74, min= 1.60, max= 3.55

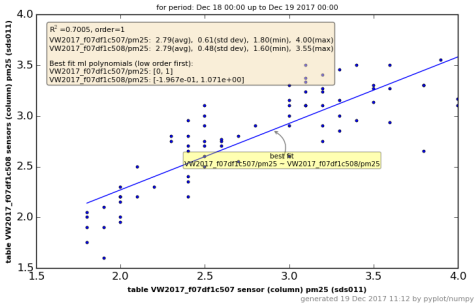
avg= 2.79, std dev= 0.48

R-squared (R^2) with VW2017_f07df1c508/pm25: 0.7005

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

VW2017_f07df1c507/pm25 (sds011)-> best fit coefficients:

-1.967e-01, 1.071e+00



Statistical summary linear regression for VW2017_f07df1c507/pm25 with ['VW2017_f07df1c508/pm25']:

OLS Regression Results

Dep. Variable:	VW2017_f07df1c507/pm25	**R-squared:**	0.701
Model:	OLS	**Adj. R-squared:**	0.696
Method:	Least Squares	**F-statistic:**	168.4
Date:	Tue, 19 Dec 2017	**Prob (F-statistic):**	1.57e-20
Time:	11:12:16	**Log-Likelihood:**	-24.344
No. Observations:	74	**AIC:**	52.69
Df Residuals:	72	**BIC:**	57.30
Df Model:	1		

	coef	std err	t	P>|t|	[95.0% Conf. Int.]	
VW2017_f07df1c508/pm25	-0.1967	0.234	-0.842	0.403	-0.662	0.269

Omnibus:	12.472	**Durbin-Watson:**	1.062
Prob(Omnibus):	0.002	**Jarque-Bera (JB):**	13.364
Skew:	0.876	**Prob(JB):**	0.00125
Kurtosis:	4.123	**Cond. No.**	18.7

Sensor dht22@VW2017_f07df1c507 with sensor dht22@VW2017_f07df1c508

correlation report for temp (raw) measurements

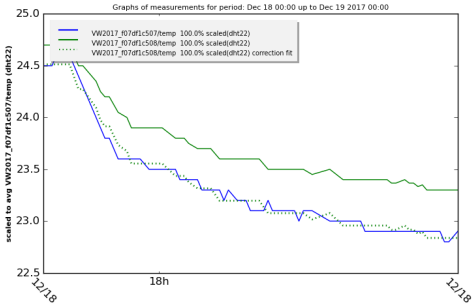
Correlation details of project VW2017 sensor kit ID f07df1c507 with project VW2017 sensor kit ID f07df1c508
Date of correlation report: Tue Dec 19 11:12:17 CET 2017
From date 2017-12-18 upto 2017-12-19 00:00
Origin of measurement time serie data from InFluxDB host: localhost
Report generated by MyRegression.py (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 MYSQL from luchtmetingen on server localhost as user teus:
Database table VW2017_f07df1c507 sensor (column) temp: 79 db records, deleted 0 NaN records.
Database table VW2017_f07df1c508 sensor (column) temp: 71 db records, deleted 1 NaN records.
Collected 74 values in sample time frame (15m/0s) for the graph. Skipped 5 db records, could not find any value(s) in same sample interval.

Samples period: Dec 18 00:00 up to Dec 19 2017 00:00, interval timing 15m:0s.

Data from table/sheet VW2017_f07df1c508, sensor (column) temp:



number 74, min=23.30, max=24.70

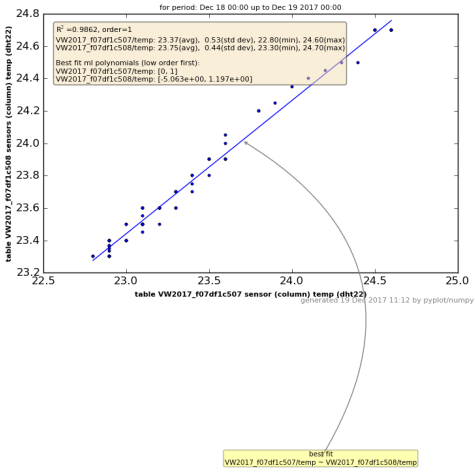
avg=23.75, std dev= 0.44

R-squared (R²) with VW2017_f07df1c508/temp: 0.9862

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

VW2017_f07df1c507/temp (dht22)-> best fit coefficients:

-5.063e+00, 1.197e+00



Statistical summary linear regression for VW2017_f07df1c507/temp with ['VW2017_f07df1c508/temp']:

OLS Regression Results

Dep. Variable:	VW2017_f07df1c507/temp	**R-squared:**	0.986
Model:	OLS	**Adj. R-squared:**	0.986
Method:	Least Squares	**F-statistic:**	5162.
Date:	Tue, 19 Dec 2017	**Prob (F-statistic):**	9.16e-69
Time:	11:12:18	**Log-Likelihood:**	101.15
No. Observations:	74	**AIC:**	-198.3
Df Residuals:	72	**BIC:**	-193.7
Df Model:	1		

	coef	std err	t	P>|t|	[95.0% Conf. Int.]	
VW2017_f07df1c508/temp	-5.0632	0.396	-12.789	0.000	-5.852	-4.274

Omnibus:	3.078	**Durbin-Watson:**	1.050
Prob(Omnibus):	0.215	**Jarque-Bera (JB):**	1.742
Skew:	-0.031	**Prob(JB):**	0.419
Kurtosis:	2.251	**Cond. No.**	1.30e+03

Sensor dht22@VW2017_f07df1c507 with sensor dht22@VW2017_f07df1c508

correlation report for rh (raw) measurements

Correlation details of project VW2017 sensor kit ID f07df1c507 with project VW2017 sensor kit ID f07df1c508
Date of correlation report: Tue Dec 19 11:12:19 CET 2017
From date 2017-12-18 upto 2017-12-19 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 MYSQL from luchtmetingen on server localhost as user teus:
Database table VW2017_f07df1c507 sensor (column) rv: 79 db records, deleted 0 NaN records.
Database table VW2017_f07df1c508 sensor (column) rv: 70 db records, deleted 2 NaN records.
Collected 74 values in sample time frame (15m/0s) for the graph. Skipped 5 db records, could not find any value(s) in same sample interval.

Samples period: Dec 18 00:00 up to Dec 19 2017 00:00, interval timing 15m:0s.

Data from table/sheet VW2017_f07df1c508, sensor (column) rv:

number 74, min=29.00, max=30.40

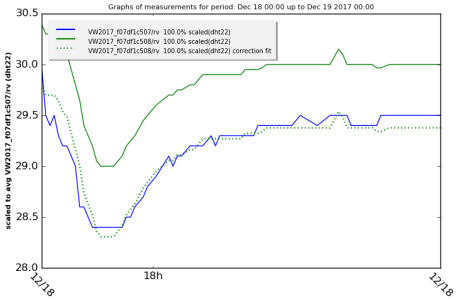
avg=29.84, std dev= 0.33

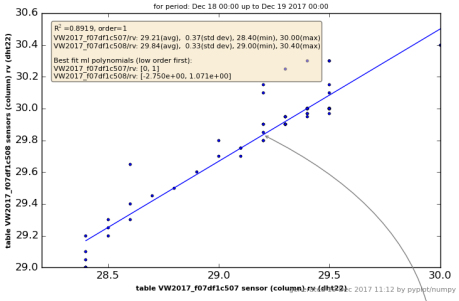
R-squared (R^2) with VW2017_f07df1c508/rv: 0.8919

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

VW2017_f07df1c507/rv (dht22)-> best fit coefficients:

-2.750e+00, 1.071e+00





Statistical summary linear regression for VW2017_f07df1c507/rv with ['VW2017_f07df1c508/rv']:

OLS Regression Results

Dep. Variable:	VW2017_f07df1c507/rv	**R-squared:**	0.892
Model:	OLS	**Adj. R-squared:**	0.890
Method:	Least Squares	**F-statistic:**	593.7
Date:	Tue, 19 Dec 2017	**Prob (F-statistic):**	1.66e-36
Time:	11:12:20	**Log-Likelihood:**	50.698
No. Observations:	74	**AIC:**	-97.40
Df Residuals:	72	**BIC:**	-92.79
Df Model:	1		

	coef	std err	t	P>|t|	[95.0% Conf. Int.]	
VW2017_f07df1c508/rv	-2.7500	1.312	-2.097	0.040	-5.364	-0.136

Omnibus:	23.318	**Durbin-Watson:**	0.508
Prob(Omnibus):	0.000	**Jarque-Bera (JB):**	32.556
Skew:	-1.350	**Prob(JB):**	8.52e-08
Kurtosis:	4.808	**Cond. No.**	2.73e+03

Table of Contents

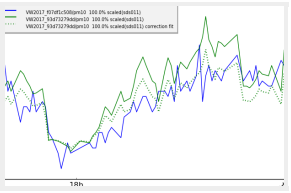
Summary of correlations of sensor kits and sensor modules

Sensorkits: VW2017_f07df1c508 VW2017_93d73279dd
Report generated on: Tue Dec 19 11:12:25 CET 2017

R-square and statistical summary

Measurement PM10 correlation key values

Correlation 1 - **PM10** - kit VW2017_f07df1c508 sensor type **SDS011** with kit VW2017_93d73279dd sensor type **SDS011**:

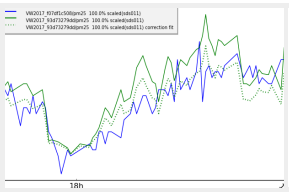


nr samples 71, min= 2.03, max= 4.65
avg= 3.33, std dev= 0.60
R-squared:
0.6304

Best fit polynomial coefficients:
[6.046e-01, 7.324e-01]

Measurement PM2.5 correlation key values

Correlation 2 - **PM2.5** - kit VW2017_f07df1c508 sensor type **SDS011** with kit VW2017_93d73279dd sensor type **SDS011**:

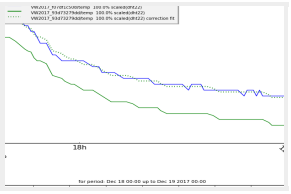


nr samples 71, min= 1.93, max= 4.25
avg= 3.08, std dev= 0.53
R-squared:
0.6991

Best fit polynomial coefficients:
[4.450e-01, 7.717e-01]

Measurement TEMP correlation key values

Correlation 3 - **TEMP** - kit VW2017_f07df1c508 sensor type **DHT22** with kit VW2017_93d73279dd sensor type **DHT22**:



nr samples 70, min=22.80, max=24.30
avg=23.31, std dev= 0.47
R-squared:
0.9885

Best fit polynomial coefficients:
[1.921e+00, 9.366e-01]

Measurement RH correlation key values

Correlation 4 - **RH** - kit VW2017_f07df1c508 sensor type **DHT22** with kit VW2017_93d73279dd sensor type **DHT22**:

nr samples 69, min=29.65, max=31.73
avg=30.57, std dev= 0.44
R-squared:
0.9169

Best fit polynomial coefficients:
[6.601e+00, 7.601e-01]

Sensor sds011@VW2017_f07df1c508 with sensor sds011@VW2017_93d73279dd

correlation report for pm10 (raw) measurements

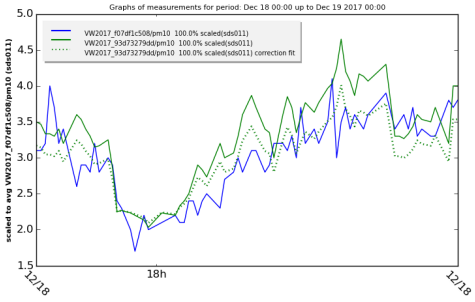
Correlation details of project VW2017 sensor kit ID f07df1c508 with project VW2017 sensor kit ID 93d73279dd
Date of correlation report: Tue Dec 19 11:12:23 CET 2017
From date 2017-12-18 upto 2017-12-19 00:00
Origin of measurement time serie data from InFluxDB host: localhost
Report generated by MyRegression.py (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 MYSQL from luchtmetingen on server localhost as user teus:
Database table VW2017_f07df1c508 sensor (column) pm10: 72 db records, deleted 0 NaN records.
Database table VW2017_93d73279dd sensor (column) pm10: 81 db records, deleted 0 NaN records.
Collected 71 values in sample time frame (15m/0s) for the graph. Skipped 1 db records, could not find any value(s) in same sample interval.

Samples period: Dec 18 00:00 up to Dec 19 2017 00:00, interval timing 15m:0s.

Data from table/sheet VW2017_93d73279dd, sensor (column) pm10:



number 71, min= 2.03, max= 4.65

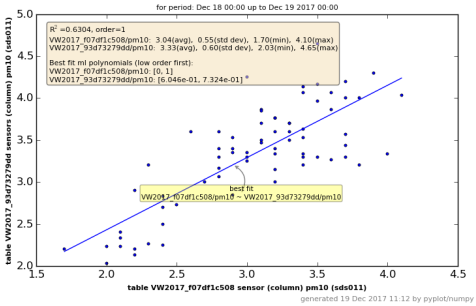
avg= 3.33, std dev= 0.60

R-squared (R²) with VW2017_93d73279dd/pm10: 0.6304

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

VW2017_f07df1c508/pm10 (sds011)-> best fit coefficients:

6.046e-01, 7.324e-01



Statistical summary linear regression for VW2017_f07df1c508/pm10 with ['VW2017_93d73279dd/pm10']:

OLS Regression Results

Dep. Variable:	VW2017_f07df1c508/pm10	**R-squared:**	0.630
Model:	OLS	**Adj. R-squared:**	0.625
Method:	Least Squares	**F-statistic:**	117.7
Date:	Tue, 19 Dec 2017	**Prob (F-statistic):**	1.45e-16
Time:	11:12:24	**Log-Likelihood:**	-23.347
No. Observations:	71	**AIC:**	50.69
Df Residuals:	69	**BIC:**	55.22
Df Model:	1		

	coef	std err	t	P>|t|	[95.0% Conf. Int.]	
VW2017_93d73279dd/pm10	0.6046	0.228	2.649	0.010	0.149	1.060

Omnibus:	3.832	**Durbin-Watson:**	1.317
Prob(Omnibus):	0.147	**Jarque-Bera (JB):**	3.015
Skew:	0.468	**Prob(JB):**	0.221
Kurtosis:	3.377	**Cond. No.**	20.7

Sensor sds011@VW2017_f07df1c508 with sensor sds011@VW2017_93d73279dd

correlation report for pm25 (raw) measurements

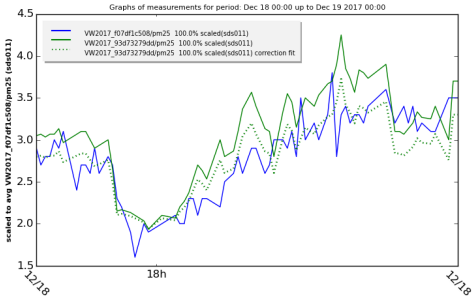
Correlation details of project VW2017 sensor kit ID f07df1c508 with project VW2017 sensor kit ID 93d73279dd
Date of correlation report: Tue Dec 19 11:12:25 CET 2017
From date 2017-12-18 upto 2017-12-19 00:00
Origin of measurement time serie data from InFluxDB host: localhost
Report generated by MyRegression.py (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 MYSQL from luchtmetingen on server localhost as user teus:
Database table VW2017_f07df1c508 sensor (column) pm25: 72 db records, deleted 0 NaN records.
Database table VW2017_93d73279dd sensor (column) pm25: 81 db records, deleted 0 NaN records.
Collected 71 values in sample time frame (15m/0s) for the graph. Skipped 1 db records, could not find any value(s) in same sample interval.

Samples period: Dec 18 00:00 up to Dec 19 2017 00:00, interval timing 15m:0s.

Data from table/sheet VW2017_93d73279dd, sensor (column) pm25:



number 71, min= 1.93, max= 4.25

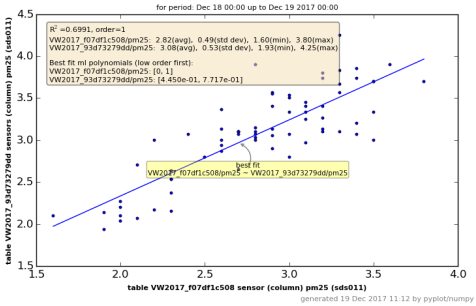
avg= 3.08, std dev= 0.53

R-squared (R^2) with VW2017_93d73279dd/pm25: 0.6991

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

VW2017_f07df1c508/pm25 (sds011)-> best fit coefficients:

4.450e-01, 7.717e-01



Statistical summary linear regression for VW2017_f07df1c508/pm25 with ['VW2017_93d73279dd/pm25']:

OLS Regression Results

Dep. Variable:	VW2017_f07df1c508/pm25	**R-squared:**	0.699
Model:	OLS	**Adj. R-squared:**	0.695
Method:	Least Squares	**F-statistic:**	160.3
Date:	Tue, 19 Dec 2017	**Prob (F-statistic):**	1.15e-19
Time:	11:12:26	**Log-Likelihood:**	-7.3593
No. Observations:	71	**AIC:**	18.72
Df Residuals:	69	**BIC:**	23.24
Df Model:	1		

	coef	std err	t	P>|t|	[95.0% Conf. Int.]	
VW2017_93d73279dd/pm25	0.4450	0.190	2.337	0.022	0.065	0.825

Omnibus:	1.575	**Durbin-Watson:**	1.401
Prob(Omnibus):	0.455	**Jarque-Bera (JB):**	0.958
Skew:	0.241	**Prob(JB):**	0.620
Kurtosis:	3.301	**Cond. No.**	20.3

Sensor dht22@VW2017_f07df1c508 with sensor dht22@VW2017_93d73279dd

correlation report for temp (raw) measurements

Correlation details of project VW2017 sensor kit ID f07df1c508 with project VW2017 sensor kit ID 93d73279dd
Date of correlation report: Tue Dec 19 11:12:27 CET 2017
From date 2017-12-18 upto 2017-12-19 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 MYSQL from luchtmetingen on server localhost as user teus:
Database table VW2017_f07df1c508 sensor (column) temp: 71 db records, deleted 1 NaN records.
Database table VW2017_93d73279dd sensor (column) temp: 80 db records, deleted 1 NaN records.
Collected 70 values in sample time frame (15m/0s) for the graph. Skipped 1 db records, could not find any value(s) in same sample interval.

Samples period: Dec 18 00:00 up to Dec 19 2017 00:00, interval timing 15m:0s.

Data from table/sheet VW2017_93d73279dd, sensor (column) temp:

number 70, min=22.80, max=24.30

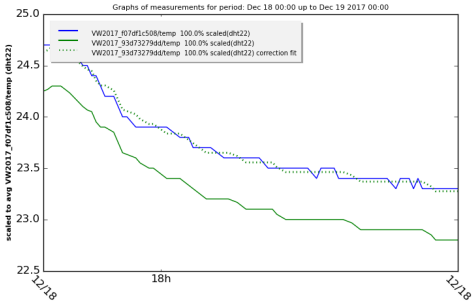
avg=23.31, std dev= 0.47

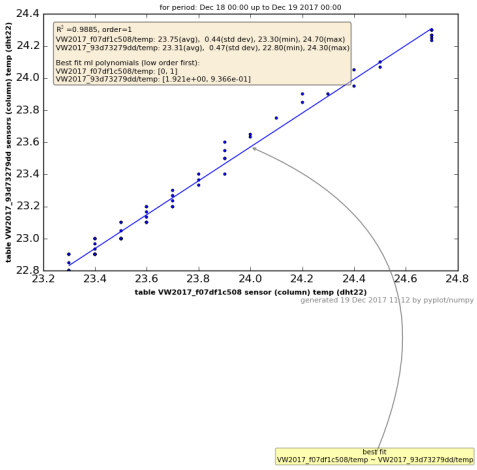
R-squared (R²) with VW2017_93d73279dd/temp: 0.9885

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

VW2017_f07df1c508/temp (dht22)-> best fit coefficients:

1.921e+00, 9.366e-01





Statistical summary linear regression for VW2017_f07df1c508/temp with ['VW2017_93d73279dd/temp']:

OLS Regression Results

Dep. Variable:	VW2017_f07df1c508/temp	**R-squared:**	0.988
Model:	OLS	**Adj. R-squared:**	0.988
Method:	Least Squares	**F-statistic:**	5839.
Date:	Tue, 19 Dec 2017	**Prob (F-statistic):**	1.16e-67
Time:	11:12:28	**Log-Likelihood:**	114.55
No. Observations:	70	**AIC:**	-225.1
Df Residuals:	68	**BIC:**	-220.6
Df Model:	1		

	coef	**std err**	**t**	**P>|t|**	**[95.0% Conf. Int.]**	
VW2017_93d73279dd/temp	1.9206	0.286	6.721	0.000	1.350	2.491

Omnibus:	7.098	**Durbin-Watson:**	1.243
Prob(Omnibus):	0.029	**Jarque-Bera (JB):**	5.619
Skew:	-0.582	**Prob(JB):**	0.0602
Kurtosis:	2.245	**Cond. No.**	1.17e+03

Sensor dht22@VW2017_f07df1c508 with sensor dht22@VW2017_93d73279dd

correlation report for rh (raw) measurements

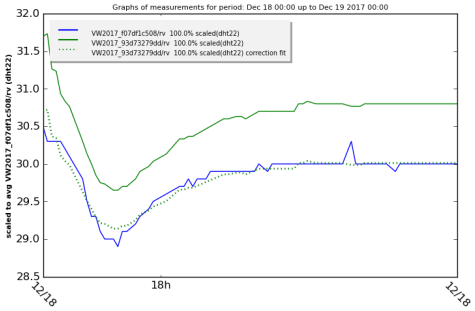
Correlation details of project VW2017 sensor kit ID f07df1c508 with project VW2017 sensor kit ID 93d73279dd
Date of correlation report: Tue Dec 19 11:12:29 CET 2017
From date 2017-12-18 upto 2017-12-19 00:00
Origin of measurement time serie data from InFluxDB host: localhost
Report generated by MyRegression.py (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 MYSQL from luchtmetingen on server localhost as user teus:
Database table VW2017_f07df1c508 sensor (column) rv: 70 db records, deleted 2 NaN records.
Database table VW2017_93d73279dd sensor (column) rv: 79 db records, deleted 2 NaN records.
Collected 69 values in sample time frame (15m/0s) for the graph. Skipped 1 db records, could not find any value(s) in same sample interval.

Samples period: Dec 18 00:00 up to Dec 19 2017 00:00, interval timing 15m:0s.

Data from table/sheet VW2017_93d73279dd, sensor (column) rv:



number 69, min=29.65, max=31.73

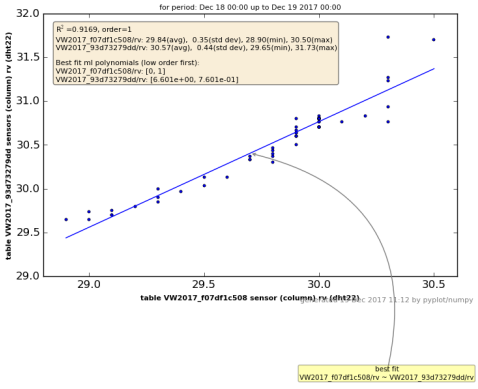
avg=30.57, std dev= 0.44

R-squared (R²) with VW2017_93d73279dd/rv: 0.9169

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

VW2017_f07df1c508/rv (dht22)-> best fit coefficients:

6.601e+00, 7.601e-01



Statistical summary linear regression for VW2017_f07df1c508/rv with ['VW2017_93d73279dd/rv']:

OLS Regression Results

Dep. Variable:	VW2017_f07df1c508/rv	**R-squared:**	0.917
Model:	OLS	**Adj. R-squared:**	0.916
Method:	Least Squares	**F-statistic:**	739.3
Date:	Tue, 19 Dec 2017	**Prob (F-statistic):**	6.48e-38
Time:	11:12:30	**Log-Likelihood:**	61.144
No. Observations:	69	**AIC:**	-118.3
Df Residuals:	67	**BIC:**	-113.8
Df Model:	1		

	coef	**std err**	**t**	**P>|t|**	**[95.0% Conf. Int.]**	
VW2017_93d73279dd/rv	6.6009	0.855	7.723	0.000	4.895	8.307

Omnibus:	22.318	**Durbin-Watson:**	0.943
Prob(Omnibus):	0.000	**Jarque-Bera (JB):**	69.682
Skew:	-0.845	**Prob(JB):**	7.39e-16
Kurtosis:	7.624	**Cond. No.**	2.15e+03