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Summary of correlations of sensor kits and sensor modules

Sensorkits: BdP_3f18c330 BdP_8d5ba45f
Report generated on: Tue 11 Sep 13:23:01 CEST 2018

R-square and statistical summary

Measurement TEMP correlation key values

Correlation 1 - **TEMP** - kit BdP_3f18c330 sensor type **SHT31** with kit BdP_3f18c330 sensor type **BME280**:

nr samples 97, min=23.40, max=27.10
avg=25.27, std dev= 1.21
R-squared:
0.9852

Best fit polynomial coefficients:
[-8.134e-01, 1.029e+00]

Correlation 2 - **TEMP** - kit BdP_3f18c330 sensor type **SHT31** with kit BdP_3f18c330 sensor type **SPEC**:

nr samples 97, min=24.50, max=29.00
avg=26.41, std dev= 1.28
R-squared:
0.9804

Best fit polynomial coefficients:
[-9.702e-01, 1.080e+00]

Correlation 3 - **TEMP** - kit BdP_3f18c330 sensor type **SHT31** with kit BdP_8d5ba45f sensor type **SHT31**:

nr samples 97, min=23.45, max=27.00
avg=25.32, std dev= 1.18
R-squared:
0.9370

Best fit polynomial coefficients:
[5.269e-01, 9.781e-01]

Correlation 4 - **TEMP** - kit BdP_3f18c330 sensor type **SHT31** with kit BdP_8d5ba45f sensor type **BME280**:

nr samples 97, min=24.77, max=28.17
avg=26.56, std dev= 1.11
R-squared:
0.9444

Best fit polynomial coefficients:
[3.138e+00, 9.239e-01]

Correlation 5 - **TEMP** - kit BdP_3f18c330 sensor type **SHT31** with kit BdP_8d5ba45f sensor type **SPEC**:

nr samples 97, min=23.50, max=27.16
avg=25.46, std dev= 1.14
R-squared:
0.9216

Best fit polynomial coefficients:
[1.736e+00, 9.357e-01]

Correlation 6 - **TEMP** - kit BdP_3f18c330 sensor type **BME280** with kit BdP_3f18c330 sensor type **SPEC**:

nr samples 97, min=24.50, max=29.00
avg=26.41, std dev= 1.28
R-squared:
0.9725

Best fit polynomial coefficients:
[1.863e-01, 1.038e+00]

Correlation 7 - **TEMP** - kit BdP_3f18c330 sensor type **BME280** with kit BdP_8d5ba45f sensor type **SHT31**:

nr samples 97, min=23.45, max=27.00
avg=25.32, std dev= 1.18
R-squared:
0.9556

Best fit polynomial coefficients:
[1.243e+00, 9.529e-01]

Correlation 8 - **TEMP** - kit BdP_3f18c330 sensor type **BME280** with kit BdP_8d5ba45f sensor type **BME280**:

nr samples 97, min=24.77, max=28.17
avg=26.56, std dev= 1.11
R-squared:
0.9672

Best fit polynomial coefficients:
[3.767e+00, 9.019e-01]

Correlation 9 - **TEMP** - kit BdP_3f18c330 sensor type **BME280** with kit BdP_8d5ba45f sensor type **SPEC**:

nr samples 97, min=23.50, max=27.16
avg=25.46, std dev= 1.14
R-squared:
0.9411

Best fit polynomial coefficients:
[2.406e+00, 9.122e-01]

Correlation 10 - **TEMP** - kit BdP_3f18c330 sensor type **SPEC** with kit BdP_8d5ba45f sensor type **SHT31**:

nr samples 97, min=23.45, max=27.00
avg=25.32, std dev= 1.18
R-squared:
0.9098

Best fit polynomial coefficients:
[1.987e+00, 8.837e-01]

Correlation 11 - **TEMP** - kit BdP_3f18c330 sensor type **SPEC** with kit BdP_8d5ba45f sensor type **BME280**:

nr samples 97, min=24.77, max=28.17
avg=26.56, std dev= 1.11
R-squared:
0.9168

Best fit polynomial coefficients:
[4.520e+00, 8.346e-01]

Correlation 12 - **TEMP** - kit BdP_3f18c330 sensor type **SPEC** with kit BdP_8d5ba45f sensor type **SPEC**:

nr samples 97, min=23.50, max=27.16
avg=25.46, std dev= 1.14
R-squared:
0.8927

Best fit polynomial coefficients:
[3.160e+00, 8.444e-01]

Correlation 13 - **TEMP** - kit BdP_8d5ba45f sensor type **SHT31** with kit BdP_8d5ba45f sensor type **BME280**:

nr samples 158, min=24.77, max=28.17
avg=26.55, std dev= 1.12
R-squared:
0.9782

Best fit polynomial coefficients:
[2.994e+00, 9.305e-01]

Correlation 14 - **TEMP** - kit BdP_8d5ba45f sensor type **SHT31** with kit BdP_8d5ba45f sensor type **SPEC**:

nr samples 158, min=23.50, max=27.16
avg=25.45, std dev= 1.14
R-squared:
0.9768

Best fit polynomial coefficients:
[1.391e+00, 9.505e-01]

Correlation 15 - **TEMP** - kit BdP_8d5ba45f sensor type **BME280** with kit BdP_8d5ba45f sensor type **SPEC**:

nr samples 158, min=23.50, max=27.16
avg=25.45, std dev= 1.14
R-squared:
0.9678

Best fit polynomial coefficients:
[-1.232e+00, 1.005e+00]

Sensor sht31@BdP_3f18c330 with sensor bme280@BdP_3f18c330

correlation report for temp () measurements

Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 3f18c330
Date of correlation report: Tue 11 Sep 13:22:58 CEST 2018
From date 2018-09-10 16:25:18 upto 2018-09-11 13:22
Origin of measurement time serie data from InFluxDB host: lunar
Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): bme280, sht31
Graphs based on data MYSQL from luchtmetingen on server lunar as user teus:
Database table BdP_3f18c330 sensor (column) stemp: 97 db records, deleted 0 NaN records.
Database table BdP_3f18c330 sensor (column) temp: 97 db records, deleted 0 NaN records.
Collected 97 values in sample time frame (15m/0s) for the graph.

Samples period: Sep 10 16:25 up to Sep 11 2018 13:22, interval timing 15m:0s.

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

number 97, min=23.40, max=27.10

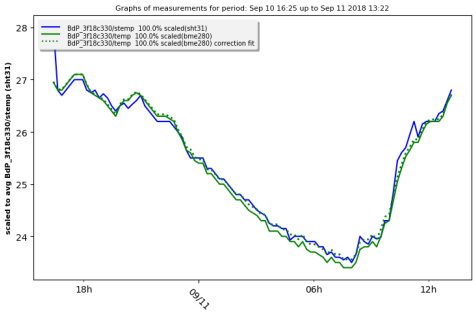
avg=25.27, std dev= 1.21

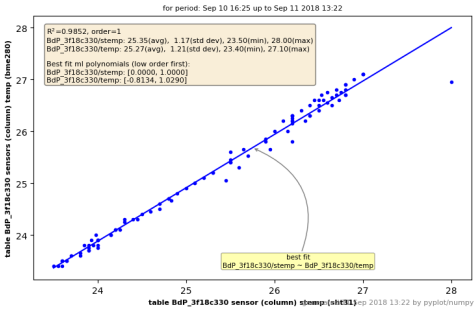
R-squared (R^2) with BdP_3f18c330/temp: 0.9852

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

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

-8.134e-01, 1.029e+00





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

OLS Regression Results

Dep. Variable:	BdP_3f18c330/stemp	**R-squared:**	0.985
Model:	OLS	**Adj. R-squared:**	0.985
Method:	Least Squares	**F-statistic:**	6328.
Date:	Tue, 11 Sep 2018	**Prob (F-statistic):**	9.72e-89
Time:	13:22:59	**Log-Likelihood:**	51.425
No. Observations:	97	**AIC:**	-98.85
Df Residuals:	95	**BIC:**	-93.70
Df Model:	1		
Covariance Type:	nonrobust		

	coef	std err	t	P>|t|	[0.025	0.975]
BdP_3f18c330/temp	1.1538	0.305	3.789	0.000	0.549	1.758

Omnibus:	123.505	**Durbin-Watson:**	0.882
Prob(Omnibus):	0.000	**Jarque-Bera (JB):**	3342.437
Skew:	4.215	**Prob(JB):**	0.00
Kurtosis:	30.494	**Cond. No.**	528.

Sensor sht31@BdP_3f18c330 with sensor spec@BdP_3f18c330

correlation report for temp () measurements

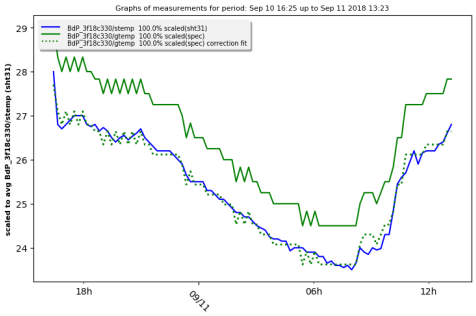
Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 3f18c330
Date of correlation report: Tue 11 Sep 13:23:01 CEST 2018
From date 2018-09-10 16:25:18 upto 2018-09-11 13:23
Origin of measurement time serie data from InFluxDB host: lunar
Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): spec, sht31
Graphs based on data MYSQL from luchtmetingen on server lunar as user teus:
Database table BdP_3f18c330 sensor (column) stemp: 97 db records, deleted 0 NaN records.
Database table BdP_3f18c330 sensor (column) gtemp: 97 db records, deleted 0 NaN records.
Collected 97 values in sample time frame (15m/0s) for the graph.

Samples period: Sep 10 16:25 up to Sep 11 2018 13:23, interval timing 15m:0s.

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



number 97, min=24.50, max=29.00

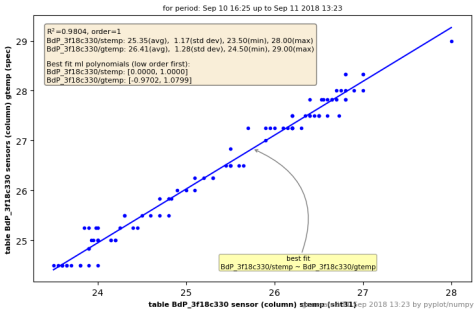
avg=26.41, std dev= 1.28

R-squared (R^2) with BdP_3f18c330/gtemp: 0.9804

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

BdP_3f18c330/stemp (spec)-> best fit coefficients:

-9.702e-01, 1.080e+00



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

OLS Regression Results

Dep. Variable:	BdP_3f18c330/stemp	**R-squared:**	0.980
Model:	OLS	**Adj. R-squared:**	0.980
Method:	Least Squares	**F-statistic:**	4753.
Date:	Tue, 11 Sep 2018	**Prob (F-statistic):**	6.22e-83
Time:	13:23:01	**Log-Likelihood:**	37.777
No. Observations:	97	**AIC:**	-71.55
Df Residuals:	95	**BIC:**	-66.40
Df Model:	1		
Covariance Type:	nonrobust		

	coef	std err	t	P>|t|	[0.025	0.975]
BdP_3f18c330/gtemp	1.3776	0.348	3.957	0.000	0.686	2.069

Omnibus:	3.143	**Durbin-Watson:**	1.751
Prob(Omnibus):	0.208	**Jarque-Bera (JB):**	2.514
Skew:	-0.366	**Prob(JB):**	0.285
Kurtosis:	3.294	**Cond. No.**	548.

Sensor sht31@BdP_3f18c330 with sensor sht31@BdP_8d5ba45f

correlation report for temp () measurements

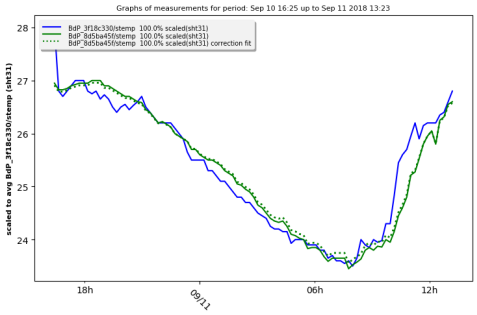
Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 8d5ba45f
Date of correlation report: Tue 11 Sep 13:23:03 CEST 2018
From date 2018-09-10 16:25:18 upto 2018-09-11 13:23
Origin of measurement time serie data from InFluxDB host: lunar
Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): sht31
Graphs based on data MYSQL from luchtmetingen on server lunar as user teus:
Database table BdP_3f18c330 sensor (column) stemp: 97 db records, deleted 0 NaN records.
Database table BdP_8d5ba45f sensor (column) stemp: 158 db records, deleted 0 NaN records.
Collected 97 values in sample time frame (15m/0s) for the graph.

Samples period: Sep 10 16:25 up to Sep 11 2018 13:23, interval timing 15m:0s.

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



number 97, min=23.45, max=27.00

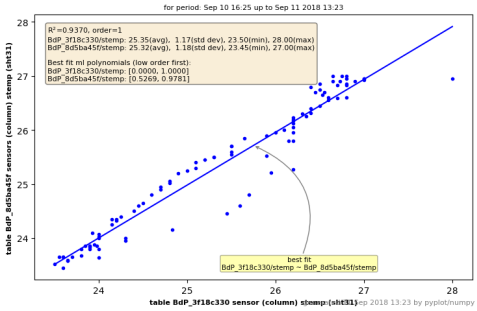
avg=25.32, std dev= 1.18

R-squared (R^2) with BdP_8d5ba45f/stemp: 0.9370

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

BdP_3f18c330/stemp (sht31)-> best fit coefficients:

5.269e-01, 9.781e-01



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

OLS Regression Results

Dep. Variable:	BdP_3f18c330/stemp	**R-squared:**	0.937
Model:	OLS	**Adj. R-squared:**	0.936
Method:	Least Squares	**F-statistic:**	1413.
Date:	Tue, 11 Sep 2018	**Prob (F-statistic):**	7.78e-59
Time:	13:23:03	**Log-Likelihood:**	-18.855
No. Observations:	97	**AIC:**	41.71
Df Residuals:	95	**BIC:**	46.86
Df Model:	1		
Covariance Type:	nonrobust		

	coef	**std err**	**t**	**P>|t|**	**[0.025**	**0.975]**
BdP_8d5ba45f/stemp	1.0922	0.646	1.691	0.094	-0.190	2.375

Omnibus:	46.069	**Durbin-Watson:**	0.324
Prob(Omnibus):	0.000	**Jarque-Bera (JB):**	105.629
Skew:	1.845	**Prob(JB):**	1.16e-23
Kurtosis:	6.539	**Cond. No.**	544.

Sensor sht31@BdP_3f18c330 with sensor bme280@BdP_8d5ba45f

correlation report for temp () measurements

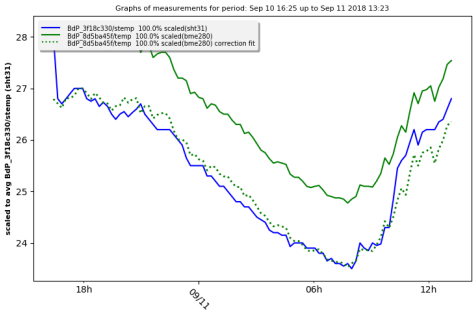
Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 8d5ba45f
Date of correlation report: Tue 11 Sep 13:23:04 CEST 2018
From date 2018-09-10 16:25:18 upto 2018-09-11 13:23
Origin of measurement time serie data from InFluxDB host: lunar
Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): bme280, sht31
Graphs based on data MYSQL from luchtmetingen on server lunar as user teus:
Database table BdP_3f18c330 sensor (column) stemp: 97 db records, deleted 0 NaN records.
Database table BdP_8d5ba45f sensor (column) temp: 158 db records, deleted 0 NaN records.
Collected 97 values in sample time frame (15m/0s) for the graph.

Samples period: Sep 10 16:25 up to Sep 11 2018 13:23, interval timing 15m:0s.

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



number 97, min=24.77, max=28.17

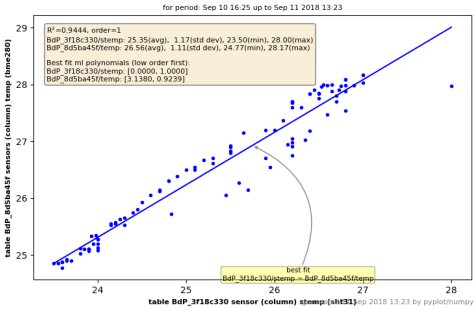
avg=26.56, std dev= 1.11

R-squared (R^2) with BdP_8d5ba45f/temp: 0.9444

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

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

3.138e+00, 9.239e-01



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

OLS Regression Results

Dep. Variable:	BdP_3f18c330/stemp	**R-squared:**	0.944
Model:	OLS	**Adj. R-squared:**	0.944
Method:	Least Squares	**F-statistic:**	1614.
Date:	Tue, 11 Sep 2018	**Prob (F-statistic):**	2.03e-61
Time:	13:23:05	**Log-Likelihood:**	-12.785
No. Observations:	97	**AIC:**	29.57
Df Residuals:	95	**BIC:**	34.72
Df Model:	1		
Covariance Type:	nonrobust		

	coef	**std err**	**t**	**P>|t|**	**[0.025**	**0.975]**
BdP_8d5ba45f/temp	-1.7987	0.676	-2.659	0.009	-3.141	-0.456

Omnibus:	40.277	**Durbin-Watson:**	0.345
Prob(Omnibus):	0.000	**Jarque-Bera (JB):**	83.344
Skew:	1.645	**Prob(JB):**	7.98e-19
Kurtosis:	6.129	**Cond. No.**	636.

Sensor sht31@BdP_3f18c330 with sensor spec@BdP_8d5ba45f

correlation report for temp () measurements

Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 8d5ba45f
Date of correlation report: Tue 11 Sep 13:23:06 CEST 2018
From date 2018-09-10 16:25:18 upto 2018-09-11 13:23
Origin of measurement time serie data from InFluxDB host: lunar
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): spec, sht31
Graphs based on data MYSQL from luchtmetingen on server lunar as user teus:
Database table BdP_3f18c330 sensor (column) stemp: 97 db records, deleted 0 NaN records.
Database table BdP_8d5ba45f sensor (column) gtemp: 158 db records, deleted 0 NaN records.
Collected 97 values in sample time frame (15m/0s) for the graph.

Samples period: Sep 10 16:25 up to Sep 11 2018 13:23, interval timing 15m:0s.

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

number 97, min=23.50, max=27.16

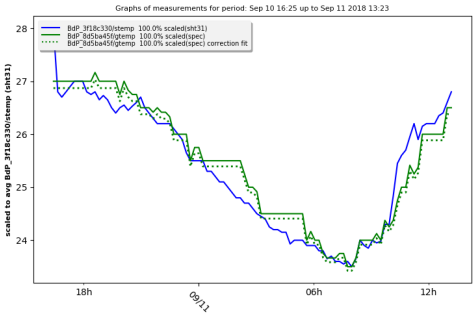
avg=25.46, std dev= 1.14

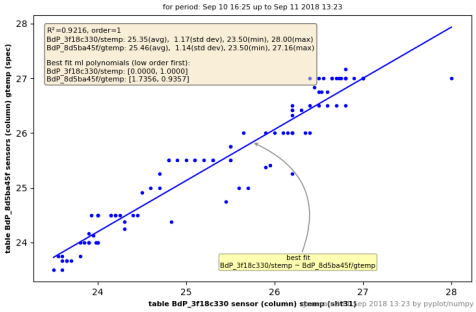
R-squared (R^2) with BdP_8d5ba45f/gtemp: 0.9216

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

BdP_3f18c330/stemp (spec)-> best fit coefficients:

1.736e+00, 9.357e-01





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

OLS Regression Results

Dep. Variable:	BdP_3f18c330/stemp	**R-squared:**	0.922
Model:	OLS	**Adj. R-squared:**	0.921
Method:	Least Squares	**F-statistic:**	1117.
Date:	Tue, 11 Sep 2018	**Prob (F-statistic):**	2.54e-54
Time:	13:23:07	**Log-Likelihood:**	-29.457
No. Observations:	97	**AIC:**	62.91
Df Residuals:	95	**BIC:**	68.06
Df Model:	1		
Covariance Type:	nonrobust		

	coef	**std err**	**t**	**P>|t|**	**[0.025**	**0.975]**
BdP_8d5ba45f/gtemp	0.2778	0.751	0.370	0.712	-1.213	1.769

Omnibus:	21.674	**Durbin-Watson:**	0.400
Prob(Omnibus):	0.000	**Jarque-Bera (JB):**	29.358
Skew:	1.076	**Prob(JB):**	4.22e-07
Kurtosis:	4.621	**Cond. No.**	570.

Sensor bme280@BdP_3f18c330 with sensor spec@BdP_3f18c330

correlation report for temp () measurements

Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 3f18c330
Date of correlation report: Tue 11 Sep 13:23:08 CEST 2018
From date 2018-09-10 16:25:18 upto 2018-09-11 13:23
Origin of measurement time serie data from InFluxDB host: lunar
Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): bme280, spec
Graphs based on data MYSQL from luchtmetingen on server lunar as user teus:
Database table BdP_3f18c330 sensor (column) temp: 97 db records, deleted 0 NaN records.
Database table BdP_3f18c330 sensor (column) gtemp: 97 db records, deleted 0 NaN records.
Collected 97 values in sample time frame (15m/0s) for the graph.

Samples period: Sep 10 16:25 up to Sep 11 2018 13:23, interval timing 15m:0s.

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

number 97, min=24.50, max=29.00

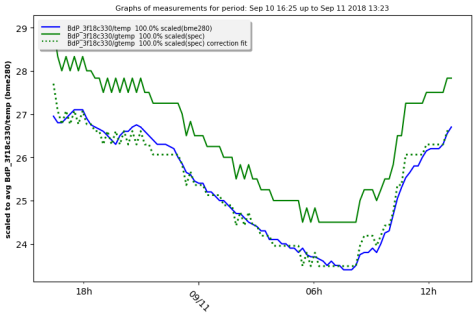
avg=26.41, std dev= 1.28

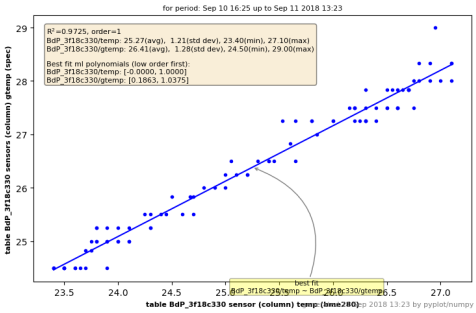
R-squared (R^2) with BdP_3f18c330/gtemp: 0.9725

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

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

1.863e-01, 1.038e+00





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

OLS Regression Results

Dep. Variable:	BdP_3f18c330/temp	**R-squared:**	0.973
Model:	OLS	**Adj. R-squared:**	0.972
Method:	Least Squares	**F-statistic:**	3363.
Date:	Tue, 11 Sep 2018	**Prob (F-statistic):**	5.83e-76
Time:	13:23:08	**Log-Likelihood:**	17.899
No. Observations:	97	**AIC:**	-31.80
Df Residuals:	95	**BIC:**	-26.65
Df Model:	1		
Covariance Type:	nonrobust		

	coef	**std err**	**t**	**P>|t|**	**[0.025**	**0.975]**
BdP_3f18c330/gtemp	0.5197	0.427	1.216	0.227	-0.329	1.368

Omnibus:	10.800	**Durbin-Watson:**	1.143
Prob(Omnibus):	0.005	**Jarque-Bera (JB):**	12.825
Skew:	-0.599	**Prob(JB):**	0.00164
Kurtosis:	4.317	**Cond. No.**	548.

Sensor bme280@BdP_3f18c330 with sensor sht31@BdP_8d5ba45f

correlation report for temp () measurements

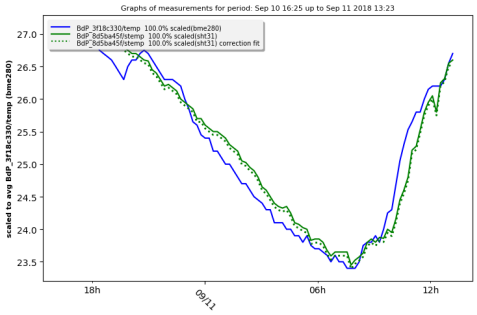
Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 8d5ba45f
Date of correlation report: Tue 11 Sep 13:23:10 CEST 2018
From date 2018-09-10 16:25:18 upto 2018-09-11 13:23
Origin of measurement time serie data from InFluxDB host: lunar
Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): bme280, sht31
Graphs based on data MYSQL from luchtmetingen on server lunar as user teus:
Database table BdP_3f18c330 sensor (column) temp: 97 db records, deleted 0 NaN records.
Database table BdP_8d5ba45f sensor (column) stemp: 158 db records, deleted 0 NaN records.
Collected 97 values in sample time frame (15m/0s) for the graph.

Samples period: Sep 10 16:25 up to Sep 11 2018 13:23, interval timing 15m:0s.

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



number 97, min=23.45, max=27.00

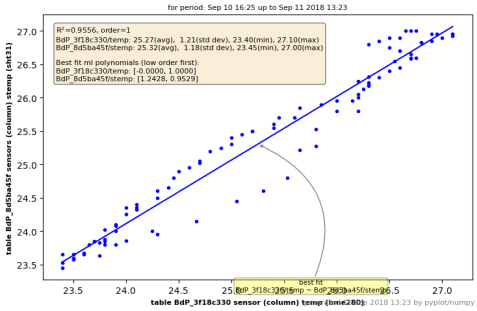
avg=25.32, std dev= 1.18

R-squared (R^2) with BdP_8d5ba45f/stemp: 0.9556

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

BdP_3f18c330/temp (sht31)-> best fit coefficients:

1.243e+00, 9.529e-01



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

OLS Regression Results

Dep. Variable:	BdP_3f18c330/temp	**R-squared:**	0.956
Model:	OLS	**Adj. R-squared:**	0.955
Method:	Least Squares	**F-statistic:**	2045.
Date:	Tue, 11 Sep 2018	**Prob (F-statistic):**	4.62e-66
Time:	13:23:10	**Log-Likelihood:**	-5.3666
No. Observations:	97	**AIC:**	14.73
Df Residuals:	95	**BIC:**	19.88
Df Model:	1		
Covariance Type:	nonrobust		

	coef	std err	t	P>|t|	[0.025	0.975]
BdP_8d5ba45f/stemp	-0.1247	0.562	-0.222	0.825	-1.241	0.991

Omnibus:	12.062	**Durbin-Watson:**	0.192
Prob(Omnibus):	0.002	**Jarque-Bera (JB):**	12.555
Skew:	0.822	**Prob(JB):**	0.00188
Kurtosis:	3.636	**Cond. No.**	544.

Sensor bme280@BdP_3f18c330 with sensor bme280@BdP_8d5ba45f

correlation report for temp () measurements

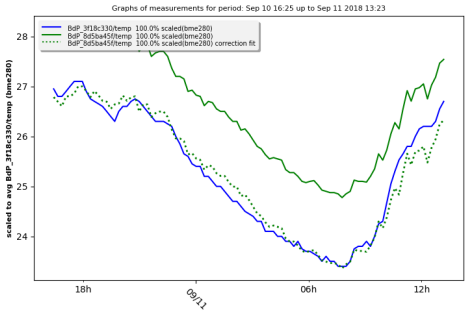
Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 8d5ba45f
Date of correlation report: Tue 11 Sep 13:23:11 CEST 2018
From date 2018-09-10 16:25:18 upto 2018-09-11 13:23
Origin of measurement time serie data from InFluxDB host: lunar
Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): bme280
Graphs based on data MYSQL from luchtmetingen on server lunar as user teus:
Database table BdP_3f18c330 sensor (column) temp: 97 db records, deleted 0 NaN records.
Database table BdP_8d5ba45f sensor (column) temp: 158 db records, deleted 0 NaN records.
Collected 97 values in sample time frame (15m/0s) for the graph.

Samples period: Sep 10 16:25 up to Sep 11 2018 13:23, interval timing 15m:0s.

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



number 97, min=24.77, max=28.17

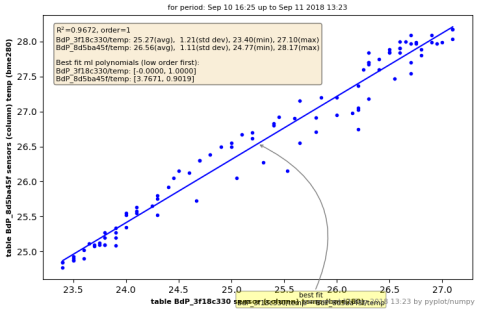
avg=26.56, std dev= 1.11

R-squared (R^2) with BdP_8d5ba45f/temp: 0.9672

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

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

3.767e+00, 9.019e-01



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

OLS Regression Results

Dep. Variable:	BdP_3f18c330/temp	**R-squared:**	0.967
Model:	OLS	**Adj. R-squared:**	0.967
Method:	Least Squares	**F-statistic:**	2798.
Date:	Tue, 11 Sep 2018	**Prob (F-statistic):**	2.79e-72
Time:	13:23:12	**Log-Likelihood:**	9.2485
No. Observations:	97	**AIC:**	-14.50
Df Residuals:	95	**BIC:**	-9.348
Df Model:	1		
Covariance Type:	nonrobust		

	coef	std err	t	P>|t|	[0.025	0.975]
BdP_8d5ba45f/temp	-3.2101	0.539	-5.956	0.000	-4.280	-2.140

Omnibus:	14.591	**Durbin-Watson:**	0.309
Prob(Omnibus):	0.001	**Jarque-Bera (JB):**	16.023
Skew:	0.925	**Prob(JB):**	0.000332
Kurtosis:	3.735	**Cond. No.**	636.

Sensor bme280@BdP_3f18c330 with sensor spec@BdP_8d5ba45f

correlation report for temp () measurements

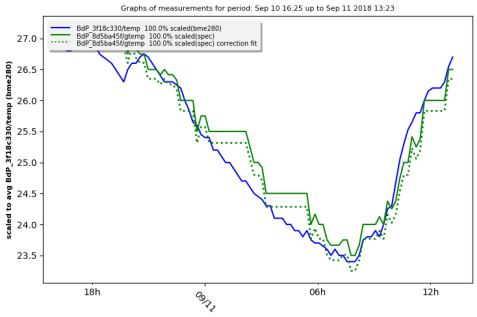
Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 8d5ba45f
Date of correlation report: Tue 11 Sep 13:23:13 CEST 2018
From date 2018-09-10 16:25:18 upto 2018-09-11 13:23
Origin of measurement time serie data from InFluxDB host: lunar
Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): bme280, spec
Graphs based on data MYSQL from luchtmetingen on server lunar as user teus:
Database table BdP_3f18c330 sensor (column) temp: 97 db records, deleted 0 NaN records.
Database table BdP_8d5ba45f sensor (column) gtemp: 158 db records, deleted 0 NaN records.
Collected 97 values in sample time frame (15m/0s) for the graph.

Samples period: Sep 10 16:25 up to Sep 11 2018 13:23, interval timing 15m:0s.

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



number 97, min=23.50, max=27.16

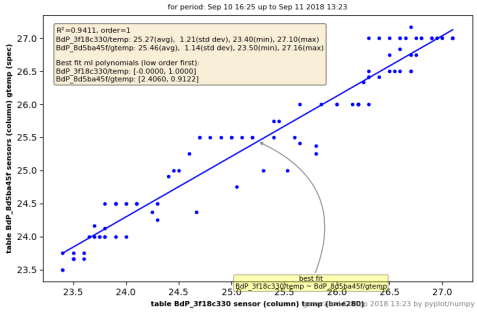
avg=25.46, std dev= 1.14

R-squared (R^2) with BdP_8d5ba45f/gtemp: 0.9411

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

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

2.406e+00, 9.122e-01



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

OLS Regression Results

Dep. Variable:	BdP_3f18c330/temp	**R-squared:**	0.941
Model:	OLS	**Adj. R-squared:**	0.940
Method:	Least Squares	**F-statistic:**	1518.
Date:	Tue, 11 Sep 2018	**Prob (F-statistic):**	3.19e-60
Time:	13:23:14	**Log-Likelihood:**	-19.085
No. Observations:	97	**AIC:**	42.17
Df Residuals:	95	**BIC:**	47.32
Df Model:	1		
Covariance Type:	nonrobust		

	coef	std err	t	P>|t|	[0.025	0.975]
BdP_8d5ba45f/gtemp	-0.9939	0.675	-1.473	0.144	-2.334	0.346

Omnibus:	0.517	**Durbin-Watson:**	0.338
Prob(Omnibus):	0.772	**Jarque-Bera (JB):**	0.662
Skew:	0.140	**Prob(JB):**	0.718
Kurtosis:	2.708	**Cond. No.**	570.

Sensor spec@BdP_3f18c330 with sensor sht31@BdP_8d5ba45f

correlation report for temp () measurements

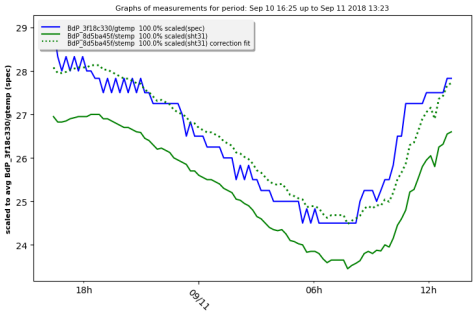
Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 8d5ba45f
Date of correlation report: Tue 11 Sep 13:23:15 CEST 2018
From date 2018-09-10 16:25:18 upto 2018-09-11 13:23
Origin of measurement time serie data from InFluxDB host: lunar
Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): spec, sht31
Graphs based on data MYSQL from luchtmetingen on server lunar as user teus:
Database table BdP_3f18c330 sensor (column) gtemp: 97 db records, deleted 0 NaN records.
Database table BdP_8d5ba45f sensor (column) stemp: 158 db records, deleted 0 NaN records.
Collected 97 values in sample time frame (15m/0s) for the graph.

Samples period: Sep 10 16:25 up to Sep 11 2018 13:23, interval timing 15m:0s.

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



number 97, min=23.45, max=27.00

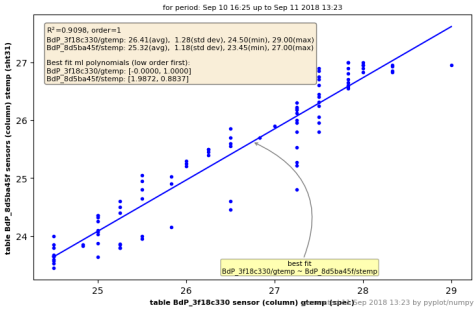
avg=25.32, std dev= 1.18

R-squared (R^2) with BdP_8d5ba45f/stemp: 0.9098

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

BdP_3f18c330/gtemp (sht31)-> best fit coefficients:

1.987e+00, 8.837e-01



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

OLS Regression Results

Dep. Variable:	BdP_3f18c330/gtemp	**R-squared:**	0.910
Model:	OLS	**Adj. R-squared:**	0.909
Method:	Least Squares	**F-statistic:**	958.6
Date:	Tue, 11 Sep 2018	**Prob (F-statistic):**	1.98e-51
Time:	13:23:15	**Log-Likelihood:**	-44.669
No. Observations:	97	**AIC:**	93.34
Df Residuals:	95	**BIC:**	98.49
Df Model:	1		
Covariance Type:	nonrobust		

	coef	**std err**	**t**	**P>|t|**	**[0.025**	**0.975]**
BdP_8d5ba45f/stemp	0.3353	0.843	0.398	0.692	-1.338	2.009

Omnibus:	21.485	**Durbin-Watson:**	0.419
Prob(Omnibus):	0.000	**Jarque-Bera (JB):**	27.401
Skew:	1.144	**Prob(JB):**	1.12e-06
Kurtosis:	4.244	**Cond. No.**	544.

Sensor spec@BdP_3f18c330 with sensor bme280@BdP_8d5ba45f

correlation report for temp () measurements

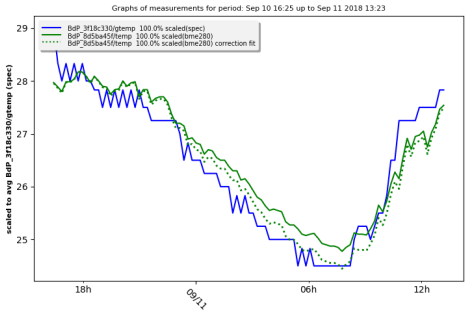
Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 8d5ba45f
Date of correlation report: Tue 11 Sep 13:23:17 CEST 2018
From date 2018-09-10 16:25:18 upto 2018-09-11 13:23
Origin of measurement time serie data from InFluxDB host: lunar
Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): bme280, spec
Graphs based on data MYSQL from luchtmetingen on server lunar as user teus:
Database table BdP_3f18c330 sensor (column) gtemp: 97 db records, deleted 0 NaN records.
Database table BdP_8d5ba45f sensor (column) temp: 158 db records, deleted 0 NaN records.
Collected 97 values in sample time frame (15m/0s) for the graph.

Samples period: Sep 10 16:25 up to Sep 11 2018 13:23, interval timing 15m:0s.

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



number 97, min=24.77, max=28.17

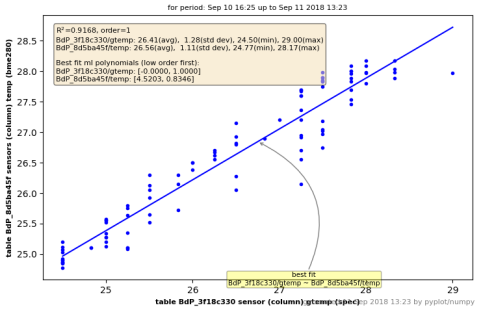
avg=26.56, std dev= 1.11

R-squared (R^2) with BdP_8d5ba45f/temp: 0.9168

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

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

4.520e+00, 8.346e-01



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

OLS Regression Results

Dep. Variable:	BdP_3f18c330/gtemp	**R-squared:**	0.917
Model:	OLS	**Adj. R-squared:**	0.916
Method:	Least Squares	**F-statistic:**	1046.
Date:	Tue, 11 Sep 2018	**Prob (F-statistic):**	4.41e-53
Time:	13:23:17	**Log-Likelihood:**	-40.785
No. Observations:	97	**AIC:**	85.57
Df Residuals:	95	**BIC:**	90.72
Df Model:	1		
Covariance Type:	nonrobust		

	coef	**std err**	**t**	**P>|t|**	**[0.025**	**0.975]**
BdP_8d5ba45f/temp	-2.7675	0.903	-3.066	0.003	-4.560	-0.975

Omnibus:	17.954	**Durbin-Watson:**	0.506
Prob(Omnibus):	0.000	**Jarque-Bera (JB):**	21.108
Skew:	1.052	**Prob(JB):**	2.61e-05
Kurtosis:	3.893	**Cond. No.**	636.

Sensor spec@BdP_3f18c330 with sensor spec@BdP_8d5ba45f

correlation report for temp () measurements

Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 8d5ba45f
Date of correlation report: Tue 11 Sep 13:23:18 CEST 2018
From date 2018-09-10 16:25:18 upto 2018-09-11 13:23
Origin of measurement time serie data from InFluxDB host: lunar
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): spec
Graphs based on data MYSQL from luchtmetingen on server lunar as user teus:
Database table BdP_3f18c330 sensor (column) gtemp: 97 db records, deleted 0 NaN records.
Database table BdP_8d5ba45f sensor (column) gtemp: 158 db records, deleted 0 NaN records.
Collected 97 values in sample time frame (15m/0s) for the graph.

Samples period: Sep 10 16:25 up to Sep 11 2018 13:23, interval timing 15m:0s.

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

number 97, min=23.50, max=27.16

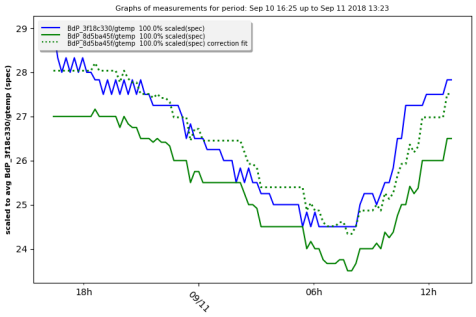
avg=25.46, std dev= 1.14

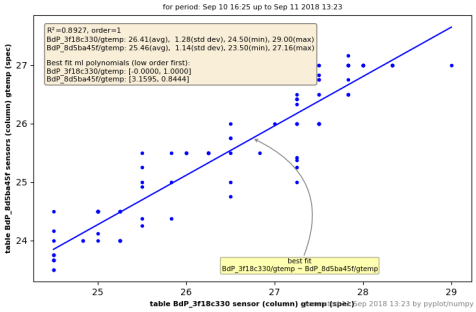
R-squared (R^2) with BdP_8d5ba45f/gtemp: 0.8927

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

BdP_3f18c330/gtemp (spec)-> best fit coefficients:

3.160e+00, 8.444e-01





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

OLS Regression Results

Dep. Variable:	BdP_3f18c330/gtemp	**R-squared:**	0.893
Model:	OLS	**Adj. R-squared:**	0.892
Method:	Least Squares	**F-statistic:**	790.6
Date:	Tue, 11 Sep 2018	**Prob (F-statistic):**	7.65e-48
Time:	13:23:19	**Log-Likelihood:**	-53.091
No. Observations:	97	**AIC:**	110.2
Df Residuals:	95	**BIC:**	115.3
Df Model:	1		
Covariance Type:	nonrobust		

	coef	std err	t	P>|t|	[0.025	0.975]
BdP_8d5ba45f/gtemp	-0.5075	0.958	-0.530	0.598	-2.410	1.395

Omnibus:	7.736	**Durbin-Watson:**	0.530
Prob(Omnibus):	0.021	**Jarque-Bera (JB):**	7.261
Skew:	0.616	**Prob(JB):**	0.0265
Kurtosis:	3.527	**Cond. No.**	570.

Sensor sht31@BdP_8d5ba45f with sensor bme280@BdP_8d5ba45f

correlation report for temp () measurements

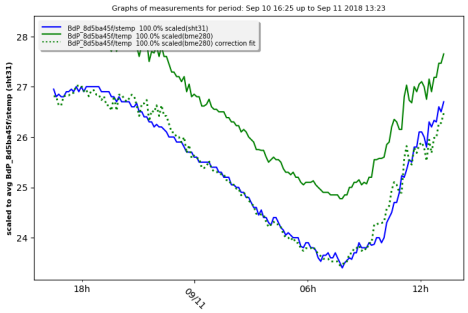
Correlation details of project BdP sensor kit ID 8d5ba45f with project BdP sensor kit ID 8d5ba45f
Date of correlation report: Tue 11 Sep 13:23:20 CEST 2018
From date 2018-09-10 16:25:18 upto 2018-09-11 13:23
Origin of measurement time serie data from InFluxDB host: lunar
Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): bme280, sht31
Graphs based on data MYSQL from luchtmetingen on server lunar as user teus:
Database table BdP_8d5ba45f sensor (column) stemp: 158 db records, deleted 0 NaN records.
Database table BdP_8d5ba45f sensor (column) temp: 158 db records, deleted 0 NaN records.
Collected 158 values in sample time frame (15m/0s) for the graph.

Samples period: Sep 10 16:25 up to Sep 11 2018 13:23, interval timing 15m:0s.

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



number 158, min=24.77, max=28.17

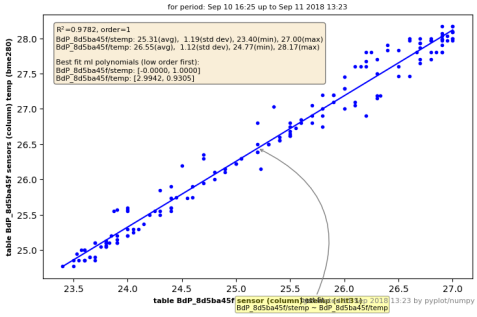
avg=26.55, std dev= 1.12

R-squared (R^2) with BdP_8d5ba45f/temp: 0.9782

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

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

2.994e+00, 9.305e-01



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

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/stemp	**R-squared:**	0.978
Model:	OLS	**Adj. R-squared:**	0.978
Method:	Least Squares	**F-statistic:**	7004.
Date:	Tue, 11 Sep 2018	**Prob (F-statistic):**	1.54e-131
Time:	13:23:21	**Log-Likelihood:**	51.251
No. Observations:	158	**AIC:**	-98.50
Df Residuals:	156	**BIC:**	-92.38
Df Model:	1		
Covariance Type:	nonrobust		

	coef	**std err**	**t**	**P>|t|**	**[0.025**	**0.975]**
BdP_8d5ba45f/temp	-2.5963	0.334	-7.779	0.000	-3.256	-1.937

Omnibus:	8.015	**Durbin-Watson:**	0.591
Prob(Omnibus):	0.018	**Jarque-Bera (JB):**	7.874
Skew:	-0.470	**Prob(JB):**	0.0195
Kurtosis:	3.560	**Cond. No.**	634.

Sensor sht31@BdP_8d5ba45f with sensor spec@BdP_8d5ba45f

correlation report for temp () measurements

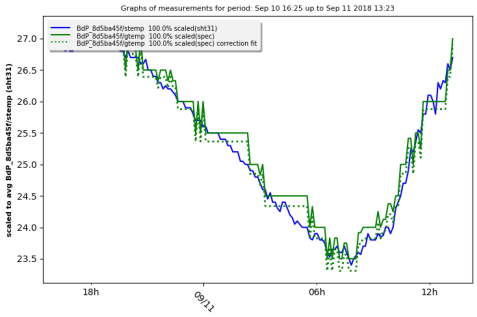
Correlation details of project BdP sensor kit ID 8d5ba45f with project BdP sensor kit ID 8d5ba45f
Date of correlation report: Tue 11 Sep 13:23:22 CEST 2018
From date 2018-09-10 16:25:18 upto 2018-09-11 13:23
Origin of measurement time serie data from InFluxDB host: lunar
Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): spec, sht31
Graphs based on data MYSQL from luchtmetingen on server lunar as user teus:
Database table BdP_8d5ba45f sensor (column) stemp: 158 db records, deleted 0 NaN records.
Database table BdP_8d5ba45f sensor (column) gtemp: 158 db records, deleted 0 NaN records.
Collected 158 values in sample time frame (15m/0s) for the graph.

Samples period: Sep 10 16:25 up to Sep 11 2018 13:23, interval timing 15m:0s.

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



number 158, min=23.50, max=27.16

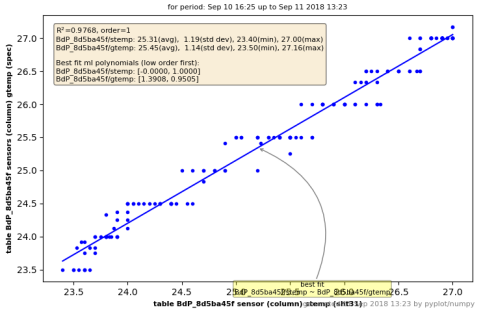
avg=25.45, std dev= 1.14

R-squared (R^2) with BdP_8d5ba45f/gtemp: 0.9768

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

BdP_8d5ba45f/stemp (spec)-> best fit coefficients:

1.391e+00, 9.505e-01



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

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/stemp	**R-squared:**	0.977
Model:	OLS	**Adj. R-squared:**	0.977
Method:	Least Squares	**F-statistic:**	6559.
Date:	Tue, 11 Sep 2018	**Prob (F-statistic):**	2.31e-129
Time:	13:23:22	**Log-Likelihood:**	46.177
No. Observations:	158	**AIC:**	-88.35
Df Residuals:	156	**BIC:**	-82.23
Df Model:	1		
Covariance Type:	nonrobust		

	coef	std err	t	P>|t|	[0.025	0.975]
BdP_8d5ba45f/gtemp	-0.8413	0.323	-2.603	0.010	-1.480	-0.203

Omnibus:	0.463	**Durbin-Watson:**	1.319
Prob(Omnibus):	0.793	**Jarque-Bera (JB):**	0.561
Skew:	0.121	**Prob(JB):**	0.755
Kurtosis:	2.838	**Cond. No.**	570.

Sensor bme280@BdP_8d5ba45f with sensor spec@BdP_8d5ba45f

correlation report for temp () measurements

Correlation details of project BdP sensor kit ID 8d5ba45f with project BdP sensor kit ID 8d5ba45f
Date of correlation report: Tue 11 Sep 13:23:24 CEST 2018
From date 2018-09-10 16:25:18 upto 2018-09-11 13:23
Origin of measurement time serie data from InFluxDB host: lunar
Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): bme280, spec
Graphs based on data MYSQL from luchtmetingen on server lunar as user teus:
Database table BdP_8d5ba45f sensor (column) temp: 158 db records, deleted 0 NaN records.
Database table BdP_8d5ba45f sensor (column) gtemp: 158 db records, deleted 0 NaN records.
Collected 158 values in sample time frame (15m/0s) for the graph.

Samples period: Sep 10 16:25 up to Sep 11 2018 13:23, interval timing 15m:0s.

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

number 158, min=23.50, max=27.16

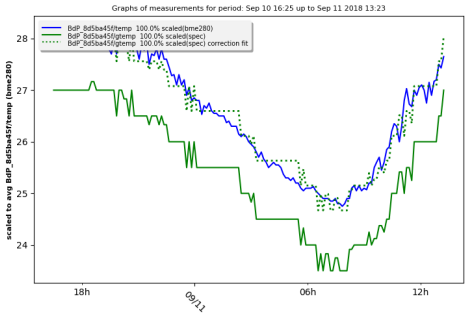
avg=25.45, std dev= 1.14

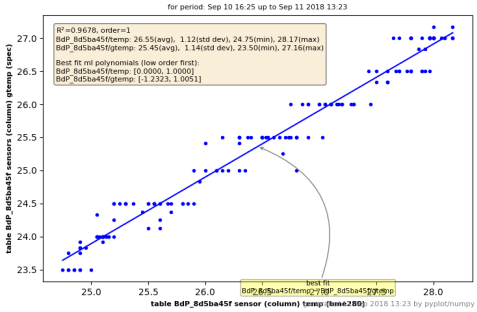
R-squared (R^2) with BdP_8d5ba45f/gtemp: 0.9678

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

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

-1.232e+00, 1.005e+00





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

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/temp	**R-squared:**	0.968
Model:	OLS	**Adj. R-squared:**	0.968
Method:	Least Squares	**F-statistic:**	4683.
Date:	Tue, 11 Sep 2018	**Prob (F-statistic):**	2.91e-118
Time:	13:23:24	**Log-Likelihood:**	29.852
No. Observations:	158	**AIC:**	-55.70
Df Residuals:	156	**BIC:**	-49.58
Df Model:	1		
Covariance Type:	nonrobust		

	coef	**std err**	**t**	**P>|t|**	**[0.025**	**0.975]**
BdP_8d5ba45f/gtemp	2.0424	0.358	5.698	0.000	1.334	2.750

Omnibus:	0.885	**Durbin-Watson:**	1.040
Prob(Omnibus):	0.642	**Jarque-Bera (JB):**	0.515
Skew:	0.040	**Prob(JB):**	0.773
Kurtosis:	3.268	**Cond. No.**	570.