



Home



File name



Part name



Revision number



Serial number



Current configuration file



Header data

ASCII EXCEL



Always list all

Tot

Characteristics

No.	<input checked="" type="checkbox"/>	Name
1	<input checked="" type="checkbox"/>	FCFLOC1.DF
2	<input checked="" type="checkbox"/>	FCFLOC1.X
3	<input checked="" type="checkbox"/>	FCFLOC1.Y
4	<input checked="" type="checkbox"/>	FCFLOC1.TP
5	<input checked="" type="checkbox"/>	LOC2.X
6	<input checked="" type="checkbox"/>	LOC2.Y
7	<input checked="" type="checkbox"/>	LOC2.D
	<input checked="" type="checkbox"/>	LOC3.X
	<input checked="" type="checkbox"/>	LOC3.Y



HEXAGON

HxGN Universal Converter

Product presentation

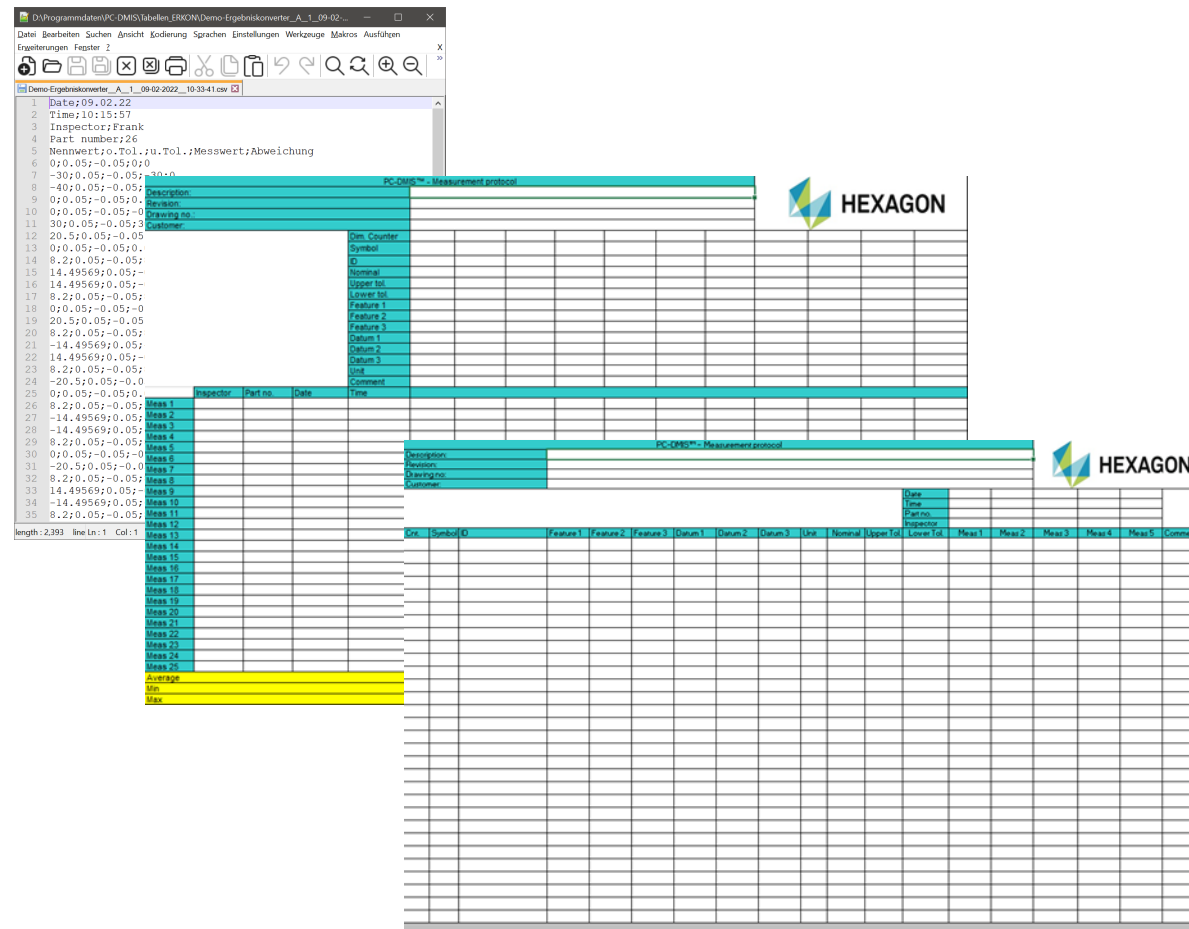
2024-09-25 Customer Solutions Wetzlar

Introduction

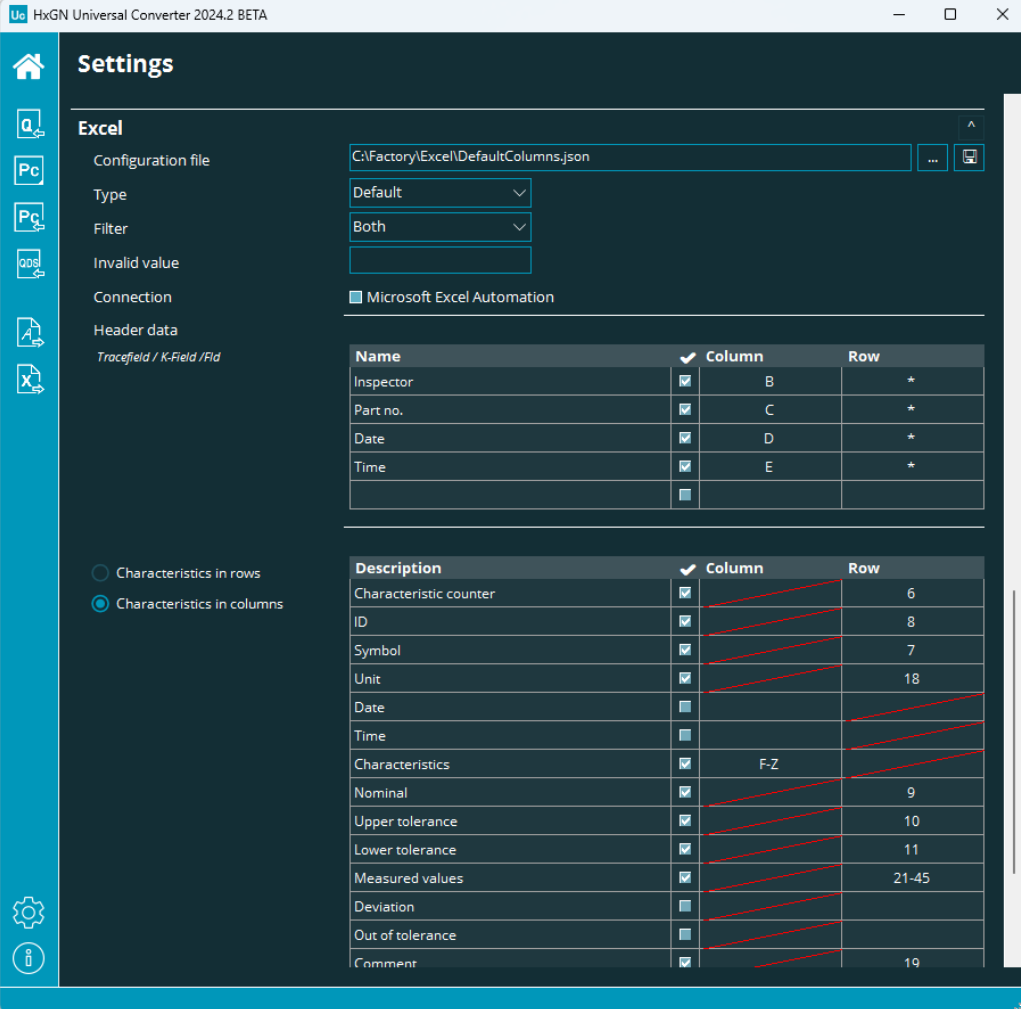
The HxGN Universal Converter provides a flexible output interface for features and additional data from PC-DMIS or a Q-DAS ASCII file. The data can be output directly in a predefined Microsoft Excel 32bit and 64bit table as well as in ASCII files.

Are you familiar with the situation where a wide variety of table or file formats are required with the measurement results?

The HxGN Universal Converter was developed for this purpose. Be amazed by the flexibility of the software.



Configuration of the Excel tables



Settings

Excel

Configuration file: C:\Factory\Excel\DefaultColumns.json

Type: Default

Filter: Both

Invalid value:

Connection: Microsoft Excel Automation

Header data: Tracefield / K-Field / Pid

Characteristics in rows

Characteristics in columns

Name	Column	Row
Inspector	B	*
Part no.	C	*
Date	D	*
Time	E	*

Description	Column	Row
Characteristic counter		6
ID		8
Symbol		7
Unit		18
Date		
Time		
Characteristics	F-Z	
Nominal		9
Upper tolerance		10
Lower tolerance		11
Measured values		21-45
Deviation		
Out of tolerance		
Comment		19

- The different table templates can be configured in the report configuration.
- Desired header or additional data can also be defined here.
- An unlimited number of configurations can be created, saved and loaded and used at the desired time.

Example of an Excel spreadsheet

The screenshot shows an Excel spreadsheet with the following structure:

- Master Tab (Rows 1-19):** Contains header information for a measurement protocol.

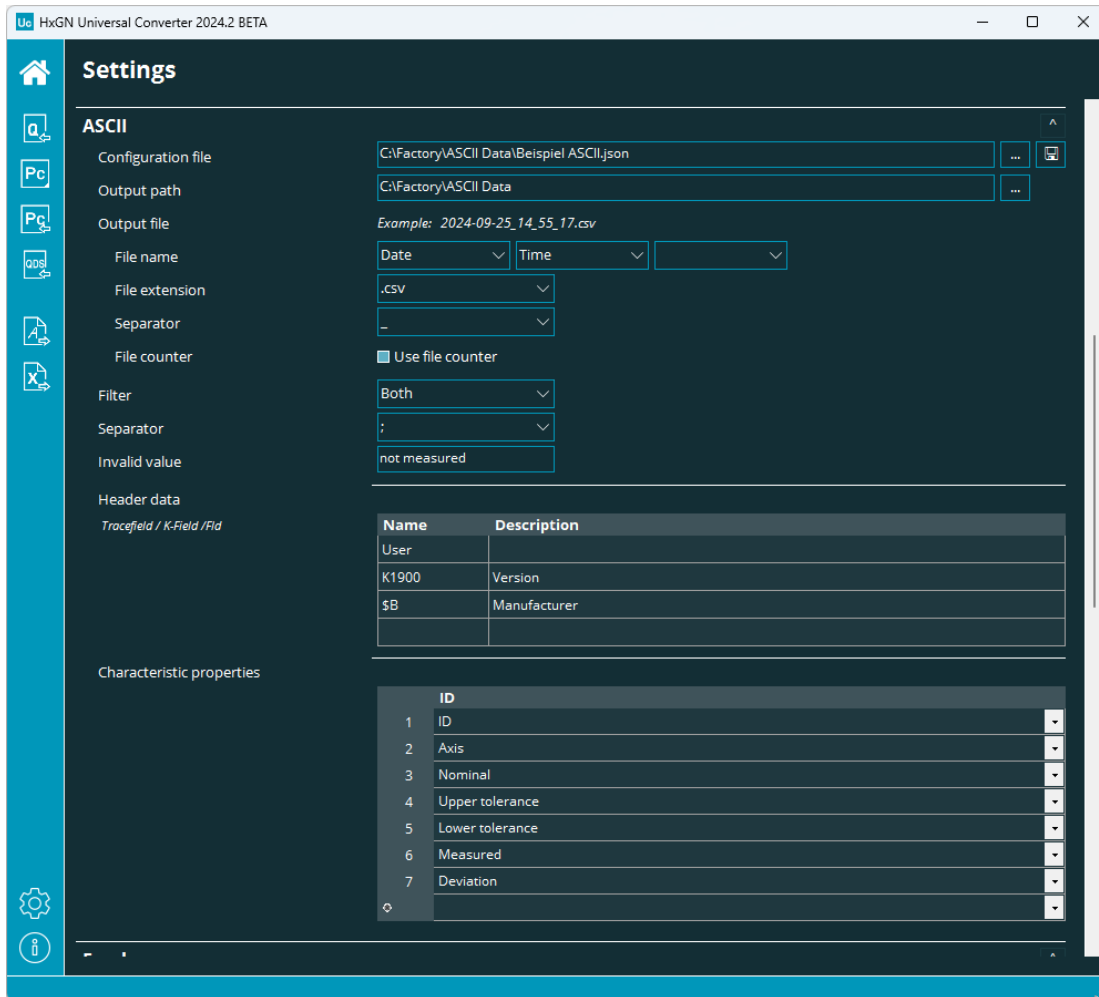
1	PC-DMIS - Measurement protocol
2	Description: Muster
3	Revision: A1
4	Drawing no.: 12
5	Customer:
6	Counter: 1
7	Symbol: 20 H
8	ID: FCFLOC1.DF
9	Nominal: 18.000
10	Upper tol: 0.010
11	Lower tol: -0.010
12	Feature 1: CIRCLE2
13	Feature 2: PNT1
14	Feature 3:
15	Datum 1:
16	Datum 2:
17	Datum 3:
18	Unit: MM
19	Comment:
- Report_1.1 Tab (Rows 20-48):** Contains a table of measurement data.

Meas No.	Inspector	Part No.	Date	Time	18.0010	71.2189	18.0010	46.9910	24.9960	56.9880	42.7237	62.5118	19.9980	19.9984	71.2189
21	SR	1	25.09.2024	12:08:41	18.0010	71.2189	18.0010	46.9910	24.9960	56.9880	42.7237	62.5118	19.9980	19.9984	71.2189
22	SR	2	25.09.2024	12:08:49	17.9990	71.2045	17.9990	46.9940	25.0070	56.9920	42.7179	62.4951	19.9970	19.9967	71.2045
23	SR	3	25.09.2024	12:08:57	17.9980	71.2100	17.9980	47.0020	25.0020	57.0060	42.7249	62.5021	19.9930	19.9926	71.2100
24	SR	4	25.09.2024	12:09:06	17.9950	71.1992	17.9950	46.9860	25.0090	56.9940	42.7157	62.4938	19.9970	19.9966	71.1992
25	SR	5	25.09.2024	12:09:15	18.0020	71.2126	18.0020	47.0120	25.0000	57.0010	42.7199	62.5048	19.9980	19.9983	71.2126
26	SR	6	25.09.2024	12:09:24	17.9980	71.2044	17.9980	46.9970	24.9920	57.0040	42.7221	62.4982	20.0030	20.0031	71.2044
27	SR	7	25.09.2024	12:09:33	17.9990	71.2031	17.9990	46.9970	24.9920	57.0020	42.7199	62.4982	20.0030	20.0031	71.2031
28	SR	8	25.09.2024	12:09:42	17.9990	71.2045	17.9990	46.9940	25.0070	56.9920	42.7179	62.4951	19.9970	19.9967	71.2045
29	SR	9	25.09.2024	12:09:51	17.9980	71.2100	17.9980	47.0020	25.0020	57.0060	42.7249	62.5021	19.9930	19.9926	71.2100
30	SR	10	25.09.2024	12:09:59	17.9950	71.1992	17.9950	46.9860	25.0090	56.9940	42.7157	62.4938	19.9970	19.9966	71.1992
31	SR	11	25.09.2024	12:10:08	18.0020	71.2126	18.0020	47.0120	25.0000	57.0010	42.7199	62.5048	19.9980	19.9983	71.2126
32	SR	12	25.09.2024	12:10:17	17.9980	71.2044	17.9980	46.9970	24.9920	57.0040	42.7221	62.4982	20.0030	20.0031	71.2044
33	SR	13	25.09.2024	12:10:26	17.9990	71.2031	17.9990	46.9970	24.9920	57.0020	42.7199	62.4982	20.0030	20.0031	71.2031
34	SR	14	25.09.2024	12:10:35	17.9990	71.2045	17.9990	46.9940	25.0070	56.9920	42.7179	62.4951	19.9970	19.9967	71.2045
35	SR	15	25.09.2024	12:10:44	17.9980	71.2100	17.9980	47.0020	25.0020	57.0060	42.7249	62.5021	19.9930	19.9926	71.2100
36	SR	16	25.09.2024	12:10:53	17.9950	71.1992	17.9950	46.9860	25.0090	56.9940	42.7157	62.4938	19.9970	19.9966	71.1992
37	SR	17	25.09.2024	12:11:02	18.0020	71.2126	18.0020	47.0120	25.0000	57.0010	42.7199	62.5048	19.9980	19.9983	71.2126
38	SR	18	25.09.2024	12:11:11	17.9980	71.2044	17.9980	46.9970	24.9920	57.0040	42.7221	62.4982	20.0030	20.0031	71.2044
39	SR	19	25.09.2024	12:11:20	17.9990	71.2031	17.9990	46.9970	24.9920	57.0020	42.7199	62.4982	20.0030	20.0031	71.2031
40	SR	20	25.09.2024	12:12:06	17.9990	71.2045	17.9990	46.9940	25.0070	56.9920	42.7179	62.4951	19.9970	19.9967	71.2045
41	SR	21	25.09.2024	12:12:13	17.9930	71.2057	17.9930	46.9890	24.9970	56.9950	42.7188	62.4979	19.9960	19.9957	71.2057
42	SR	22	25.09.2024	12:13:00	18.0020	71.1980	18.0020	46.9920	24.9950	56.9940	42.7150	62.4914	20.0000	20.0002	71.1980
43	SR	23	25.09.2024	12:13:21	17.9930	71.2069	17.9930	46.9980	24.9980	56.9940	42.7133	62.4988	19.9950	19.9954	71.2069
44	SR	24	25.09.2024	12:13:41	17.9960	71.2078	17.9960	46.9870	24.9960	56.9870	42.7197	62.5032	19.9930	19.9933	71.2078
45	SR	25	25.09.2024	12:14:02	17.9980	71.2138	17.9980	46.9930	25.0070	57.0050	42.7190	62.5060	20.0010	20.0010	71.2138
46	Min				17.9930	71.1980	17.9930	46.9890	24.9970	56.9950	42.7188	62.4979	19.9960	19.9957	71.1954
47	Max				18.0020	71.2126	18.0020	47.0120	25.0000	57.0010	42.7199	62.5048	19.9980	19.9983	71.2189
48	Average				17.9980	71.2044	17.9980	46.9970	24.9920	57.0040	42.7221	62.4982	20.0030	20.0031	71.2059
- UniqueIDs Tab (Row 49):** Contains a table for identifying changes in the measurement routine.

49	UniqueID	1	25.09.2024	12:12:06	17.9990	71.2045	17.9990	46.9940	25.0070	56.9920	42.7179	62.4951	19.9970	19.9967	71.2045
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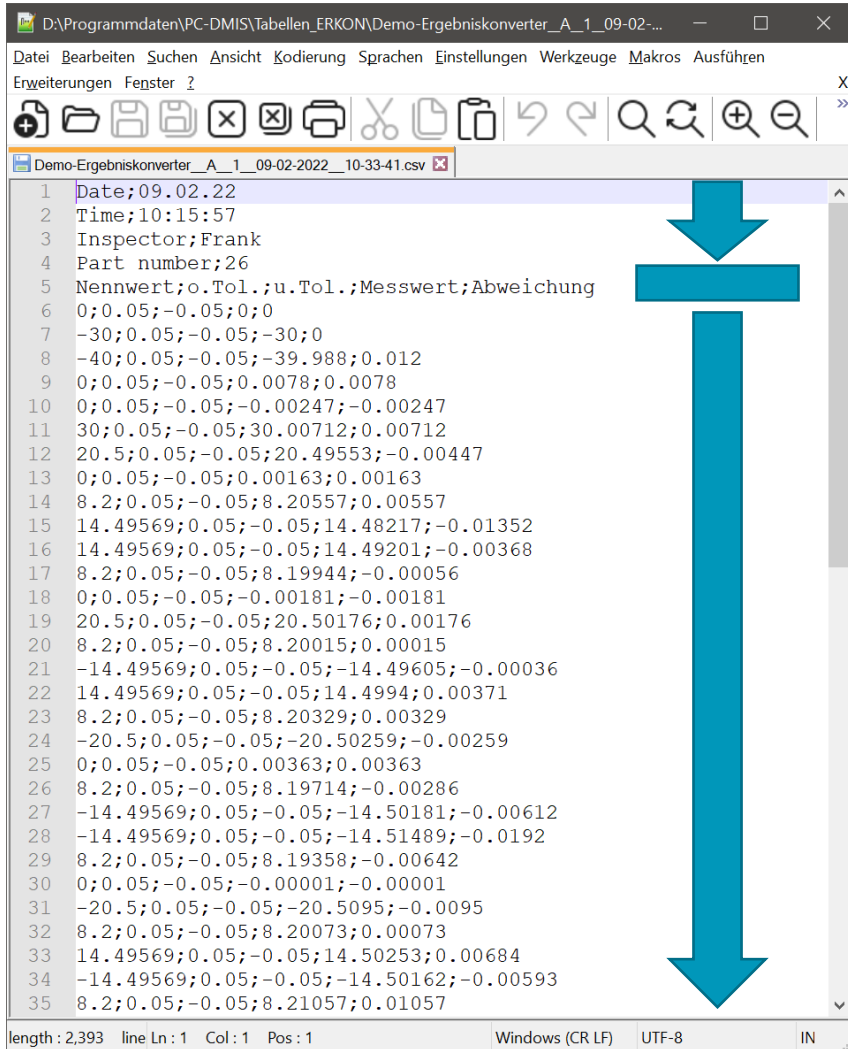
- A sample report in Microsoft Excel is shown in the image on the left. This report is limited to a size that can still be printed on an A4 format.
- If this area is not sufficient to display all characteristics, several tabs are automatically created on this page.
- Both the page and the report are incremented. Thus, the report can be considered unlimited.
- Each page is based on the template provided by the customer ("Master" tab).
- The "UniqueIDs" tab is created automatically and is used to identify changes in the measurement routine.

Configuration of the ASCII output



- In the ASCII setup it is determined which characteristic data is output per characteristic, in which order and with which separator.
- The ASCII file can be output in .csv or .txt format.

Example of an ASCII file



```

1 Date;09.02.22
2 Time;10:15:57
3 Inspector;Frank
4 Part number;26
5 Nennwert;o.Tol.;u.Tol.;Messwert;Abweichung
6 0;0.05;-0.05;0;0
7 -30;0.05;-0.05;-30;0
8 -40;0.05;-0.05;-39.988;0.012
9 0;0.05;-0.05;0.0078;0.0078
10 0;0.05;-0.05;-0.00247;-0.00247
11 30;0.05;-0.05;30.00712;0.00712
12 20.5;0.05;-0.05;20.49553;-0.00447
13 0;0.05;-0.05;0.00163;0.00163
14 8.2;0.05;-0.05;8.20557;0.00557
15 14.49569;0.05;-0.05;14.48217;-0.01352
16 14.49569;0.05;-0.05;14.49201;-0.00368
17 8.2;0.05;-0.05;8.19944;-0.00056
18 0;0.05;-0.05;-0.00181;-0.00181
19 20.5;0.05;-0.05;20.50176;0.00176
20 8.2;0.05;-0.05;8.20015;0.00015
21 -14.49569;0.05;-0.05;-14.49605;-0.00036
22 14.49569;0.05;-0.05;14.4994;0.00371
23 8.2;0.05;-0.05;8.20329;0.00329
24 -20.5;0.05;-0.05;-20.50259;-0.00259
25 0;0.05;-0.05;0.00363;0.00363
26 8.2;0.05;-0.05;8.19714;-0.00286
27 -14.49569;0.05;-0.05;-14.50181;-0.00612
28 -14.49569;0.05;-0.05;-14.51489;-0.0192
29 8.2;0.05;-0.05;8.19358;-0.00642
30 0;0.05;-0.05;-0.00001;-0.00001
31 -20.5;0.05;-0.05;-20.5095;-0.0095
32 8.2;0.05;-0.05;8.20073;0.00073
33 14.49569;0.05;-0.05;14.50253;0.00684
34 -14.49569;0.05;-0.05;-14.50162;-0.00593
35 8.2;0.05;-0.05;8.21057;0.01057

```

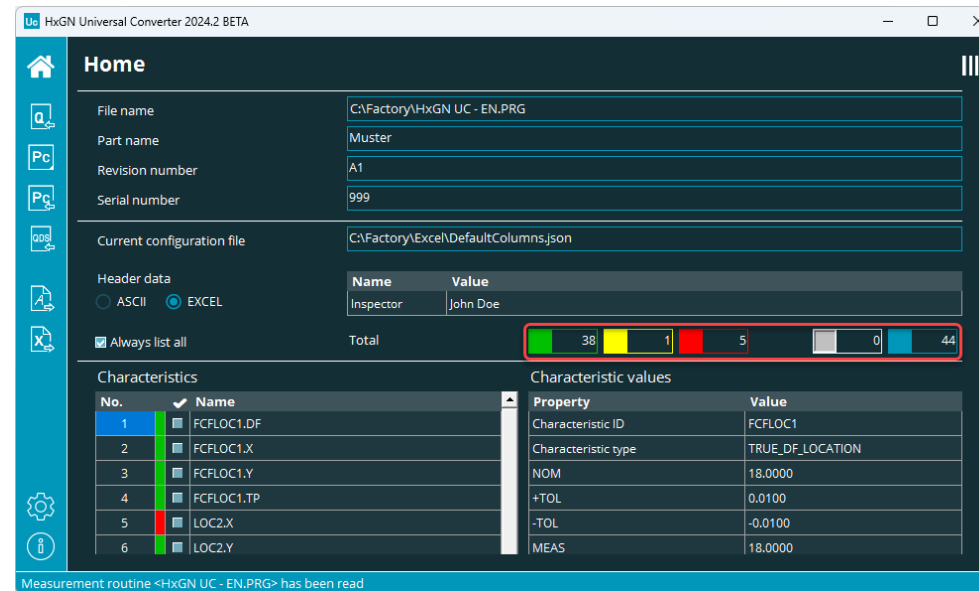
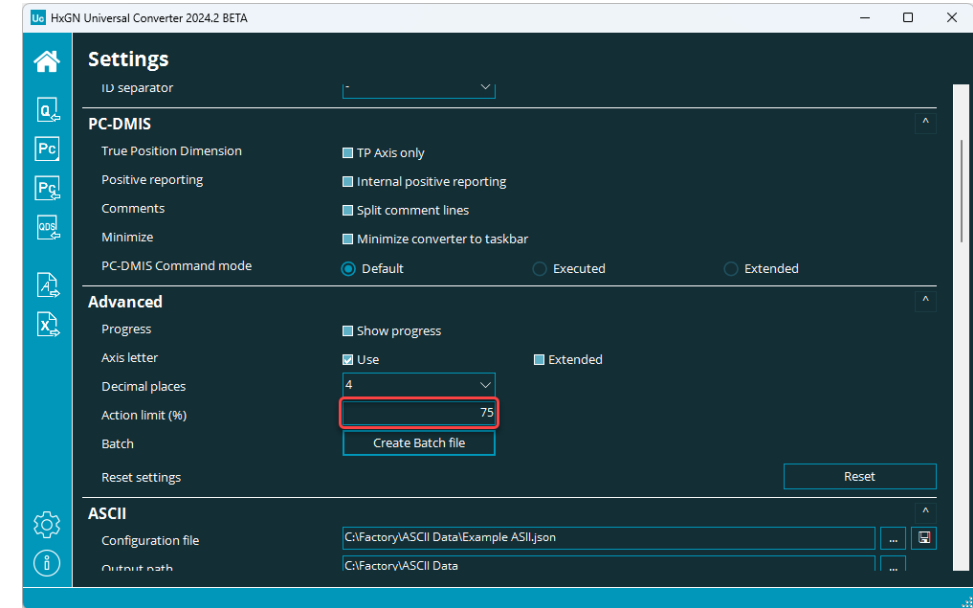
length : 2,393 line Ln: 1 Col: 1 Pos: 1 Windows (CR LF) UTF-8 IN

The output file is divided into 3 areas:

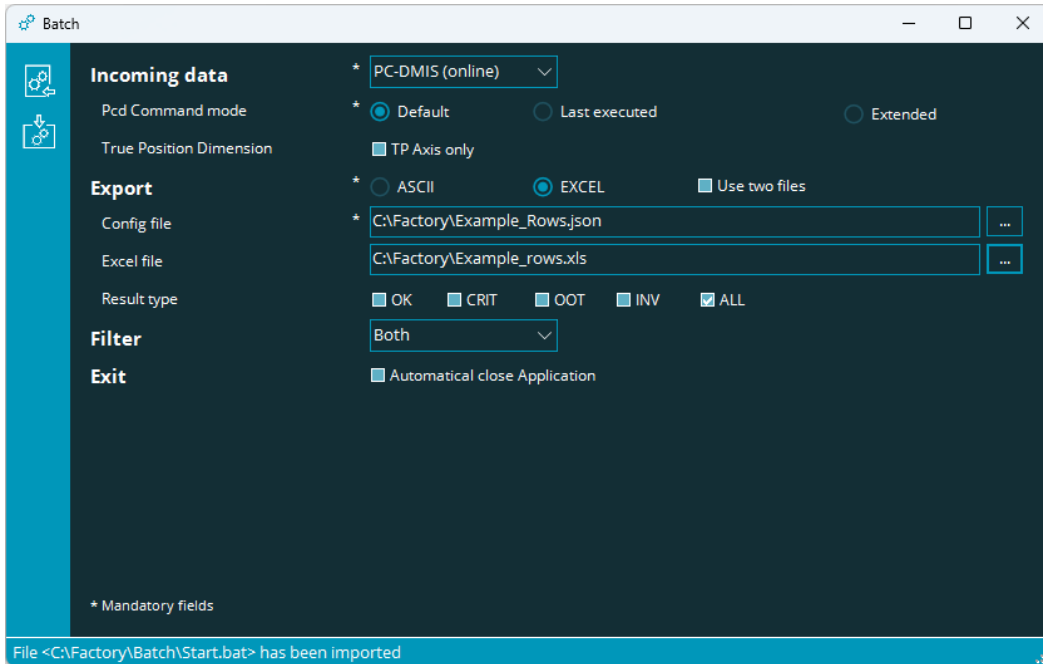
- Header data (fully configurable)
- Heading of the measured values (results from the configuration)
- Characteristic data (one line per characteristic)

Control limits

- A control limit can be defined in % of the tolerance.
- The features are differentiated by color (within tolerance, within tolerance but violation of the action limit, outside of tolerance).
- A traffic light warns the operator if intervention or tolerance limits have been violated.



Integration into the measurement routine



- The HxGN Universal Converter can be started directly from a measurement routine.
- For this purpose, a batch file can be generated via a dialog, which is then integrated into the measurement routine using an external command.
- The Excel file and the associated configuration are selected via the content of the batch file.
- This means that no operator intervention is required when using the measurement routine and there is nothing to prevent the use of the HxGN Universal Converter in an automated process.

Have we piqued your interest?

Simply download the software from our server and apply for a non-binding demo license.

https://ftp.hexmet.de/CustomerSolutions/HxGN_UC/