



HEXAGON

HxGN HybridMeasurement

Product presentation

2024-09-09 Customer Solutions Wetzlar

Integration of TESA measuring probes into the PC-DMIS measuring routine

Aim of the software:

Reduction of the cycle time by integrating a flexible number of probes into the clamping device. The deviations from the "master part" should be able to be used in the PC-DMIS measurement routine as if the measurement had been made with the coordinate measuring machine.



TESATRONIC TT100

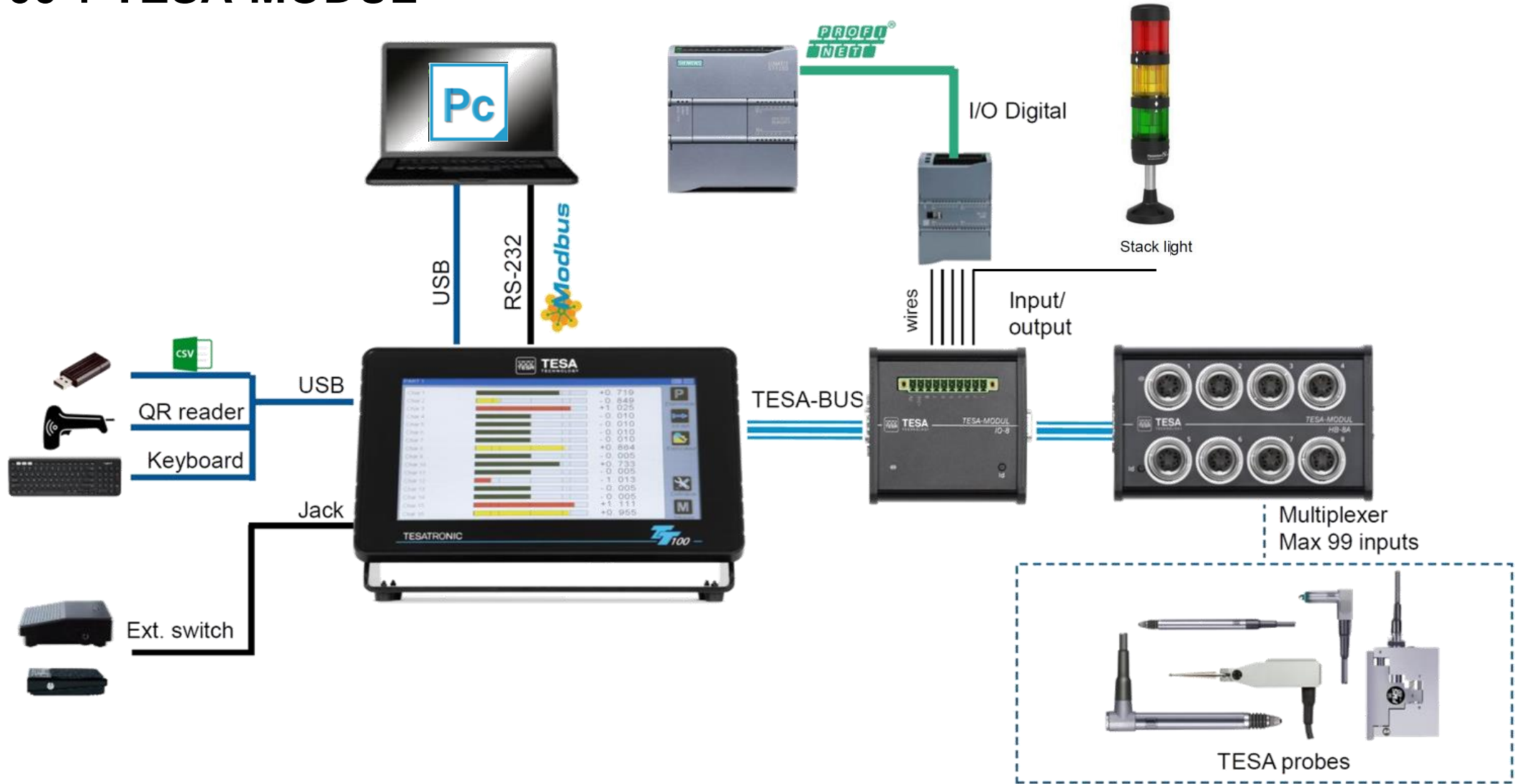


The screenshot shows the HxGN HybridMeasurement 2024.1 software interface. It features a 'Home' screen with two icons: a person sitting at a desk and a person holding a box. Below these is a 'Received data' table with three rows. An 'Information about...' window is open, displaying software details and license information.

Received data	
	Value
1	
2	
3	

Information about ...	
3N HybridMeasurement	
4.1 #3 Juni 21 2024	
Copyright © Hexagon Metrology GmbH 2018	
agon Metrology GmbH	
Developed by Customer Solution Team (Germany)	
agon Metrology GmbH	
mund-Hiepe-Str. 2-12 35578 Wetzlar.	
This product was developed in combination with PC-DMIS version 2018.	
Higher PC-DMIS versions may need an update of this product.	
Therefore there is no claim against the supplier or manufacturer without a valid software.	
License for	Hexagon
City	
License type	License with time limit (demo)
Expiry date	unlimited
License	99999-QDFG7-EBNQH-ZZ46V-FW921
Order number	Demo license
License version	1
License extent	Group license

TT100 + TESA-MODUL

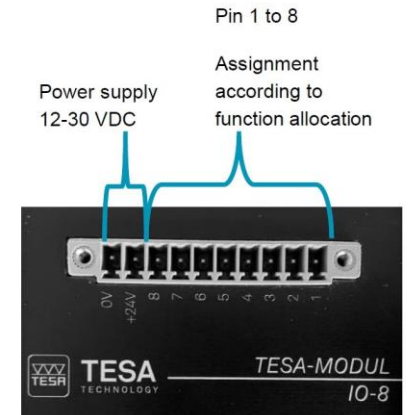
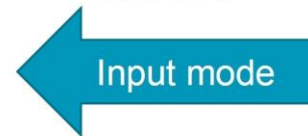


TESA-MODUL IO-8



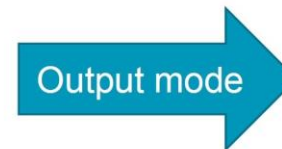
Automation from the PLC to TESA display

- Go to next sequence
- send data
- Set to Zero
- Calibration



Automation from TESA display to PLC

- Sequence OK
- Measurement OK
- Classification

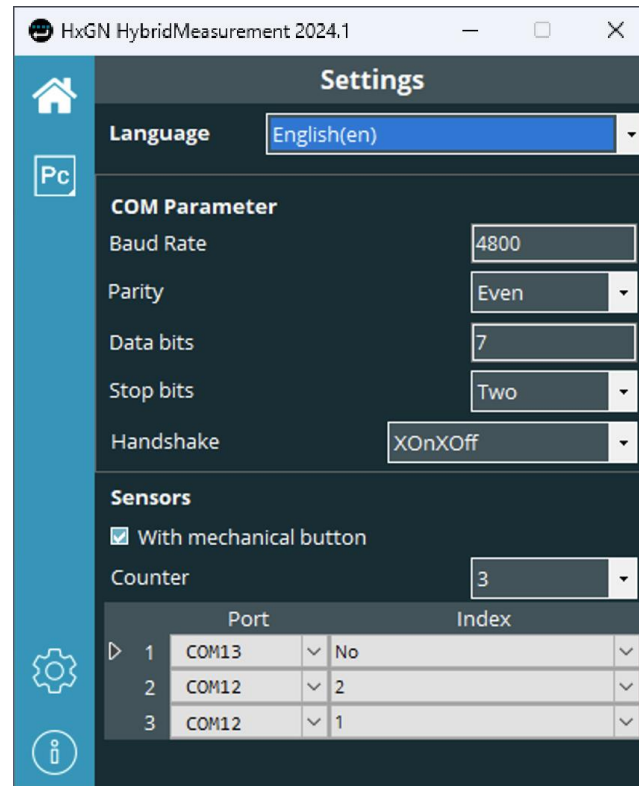


- Voltage 24 VDC
- Max 30 mA

Integration of TESA measuring probes into the PC-DMIS measuring routine

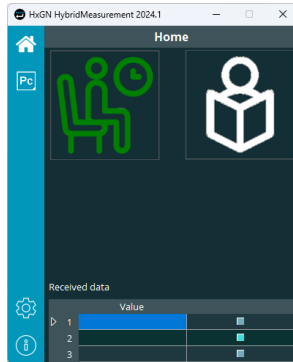
Connection Settings

The connection of the probes and/or display can be done in the software UI. The used port is detected automatically.



Integration of TESA probes into a PC-DMIS measurement routine

- Two operating modes are supported:
 - Operator triggers the measurement on the device

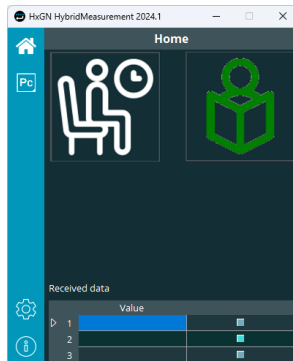


Handwitch, Jack

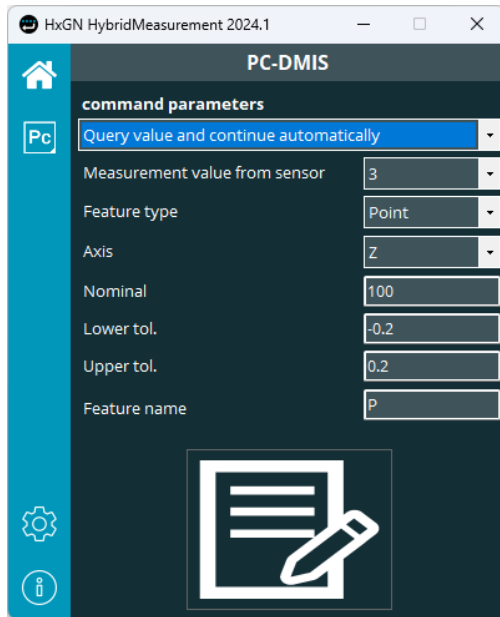


Footswitch, Jack

- Measurement routine reads the data automatically



Integration of TESA measuring probes into the PC-DMIS measuring routine



- Necessary commands are inserted into the measurement routine in a dialog-based manner.
- Each measured value is available in PC-DMIS as a fully-fledged element and can therefore be used for further operations.
- A dimension command is automatically inserted.
- The measured value of the sensor is regarded as a deviation and offset against the specified nominal value to form the actual measured value.

```

EXTERNALCOMMAND/NO_DISPLAY, WAIT ; "C:\Program Files\HxGN_SmartFixture\HxGN_SmartFixture.exe P_Z_1:A:1"
P_Z_1
=GENERIC/POINT,DEPENDENT,CARTESIAN,$
NOM/XYZ,<0,0,100>,$
MEAS/XYZ,<0,0,100>,$
NOM/IJK,<0,0,1>,$
MEAS/IJK,<0,0,1>
DIM DIM_P_Z_1= LOCATION OF POINT P_Z_1 UNITS=MM , $
GRAPH=OFF TEXT=OFF MULT=10.00 OUTPUT=BOTH HALF ANGLE=NO
AX  NOMINAL      +TOL      -TOL      MEAS      DEV      OUTTOL
Z   100.000     0.100     -0.100    100.000    0.000    0.000  -----#-----
END OF DIMENSION DIM_P_Z_1

```

Integration of TESA Micro-Hite and TESA caliper

- TESA height gauges and TESA calipers can also be connected to PC-DMIS via HxGN HybridMeasurement.



Verbindungskabel TLC-USB für Instrumente mit TLC-Anschluss

The screenshot shows the HxGN HybridMeasurement 2024.1 software interface. The main window has a dark theme with a blue sidebar on the left containing icons for Home, Pc, Settings, and Information. The Home screen displays two user icons: one for a person sitting at a chair and another for a person with a book. Below this is a 'Received data' section with a table:

	Value	
1		<input type="checkbox"/>
2		<input checked="" type="checkbox"/>
3		<input type="checkbox"/>

At the bottom right, a license information panel is visible, showing details for the software license:

- License for: Hexagon
- City: [blank]
- License type: License with time limit (demo)
- Expiry date: unlimited
- License: 99999-QDFG7-EBNQH-ZZ46V-FW921
- Order number: Demo license
- License version: 1
- License extent: Group license

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_HybridMeasurement