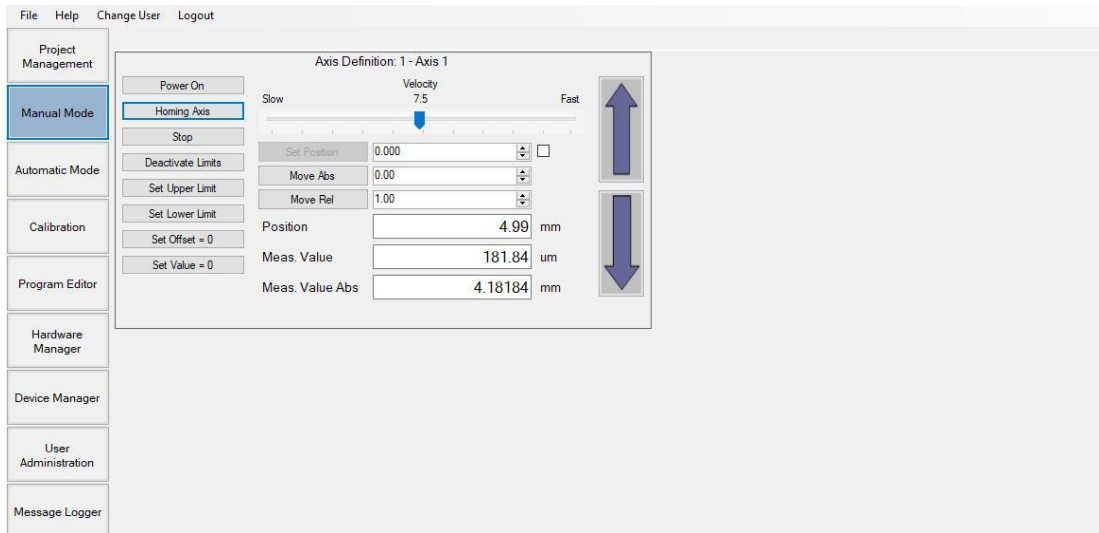


SCAN SOFTWARE VERSION FOR BONTSCAN AND SEEWALD ZMG-S GAUGES

The operation with BontScan SE is simple because of the simple user interface. This software is created to control measuring slides, I/O's and to read and display measuring values.

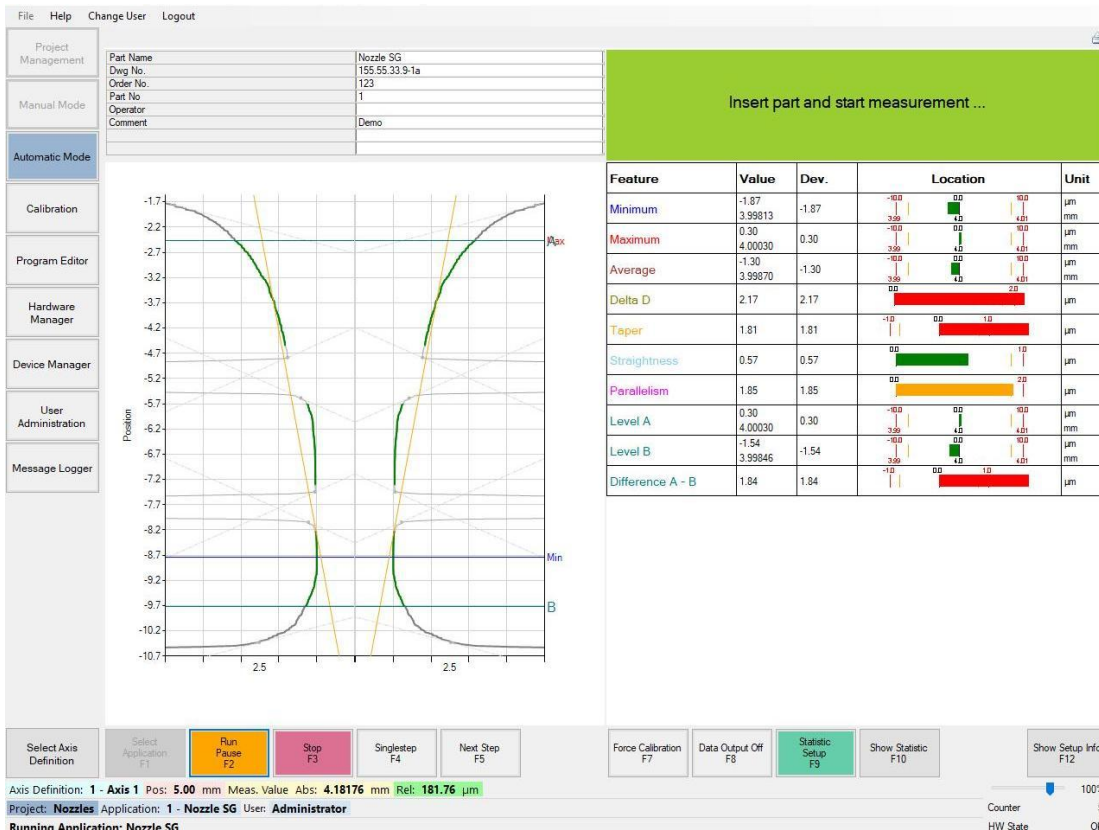
Available GUI languages: German and English, other languages on request.

Manual Mode



Measurement / Visualisation

The main layout is designed to display contours and show measuring values. Creating a user-defined layout is possible.

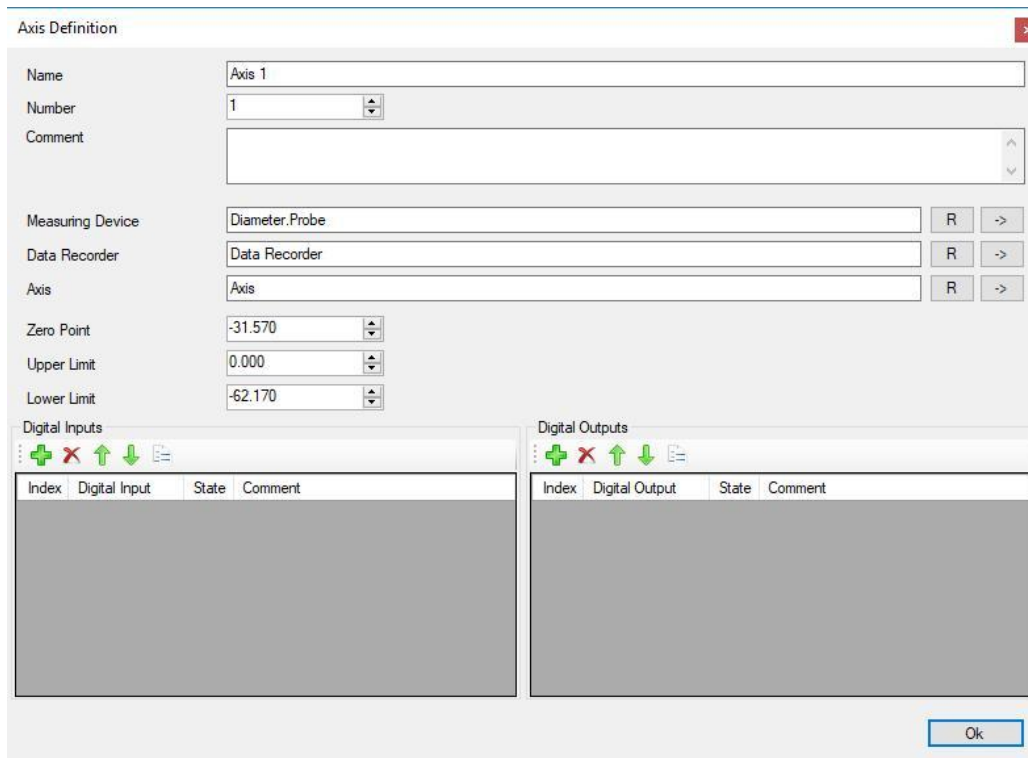


Feature	Value	Dev.	Location	Unit
Minimum	-1.87	-1.87	-10.0 0.0 9.0	μm
	3.99813		-3.99 4.0 4.01	mm
Maximum	0.30	0.30	-10.0 0.0 9.0	μm
	4.00030		-3.99 4.0 4.01	mm
Average	-1.30	-1.30	-10.0 0.0 9.0	μm
	3.99870		-3.99 4.0 4.01	mm
Delta D	2.17	2.17	0.0 2.0	μm
Taper	1.81	1.81	-1.0 0.0 1.0	μm
Straightness	0.57	0.57	0.0 1.0	μm
Parallelism	1.85	1.85	0.0 2.0	μm
Level A	0.30	0.30	-10.0 0.0 9.0	μm
	4.00030		-3.99 4.0 4.01	mm
Level B	-1.54	-1.54	-10.0 0.0 9.0	μm
	3.99846		-3.99 4.0 4.01	mm
Difference A - B	1.84	1.84	-1.0 0.0 1.0	μm

Axis Definition: 1 - Axis 1 Pos: 5.00 mm Meas. Value Abs: 4.18176 mm Re: 181.76 μm
 Project: Nozzles Application: 1 - Nozzle SG User: Administrator
 Running Application: Nozzle SG

Axis Definitions

Working with axis definitions makes it easier to handle this software. Settings have to be done only once and can be called with one click or one program line.

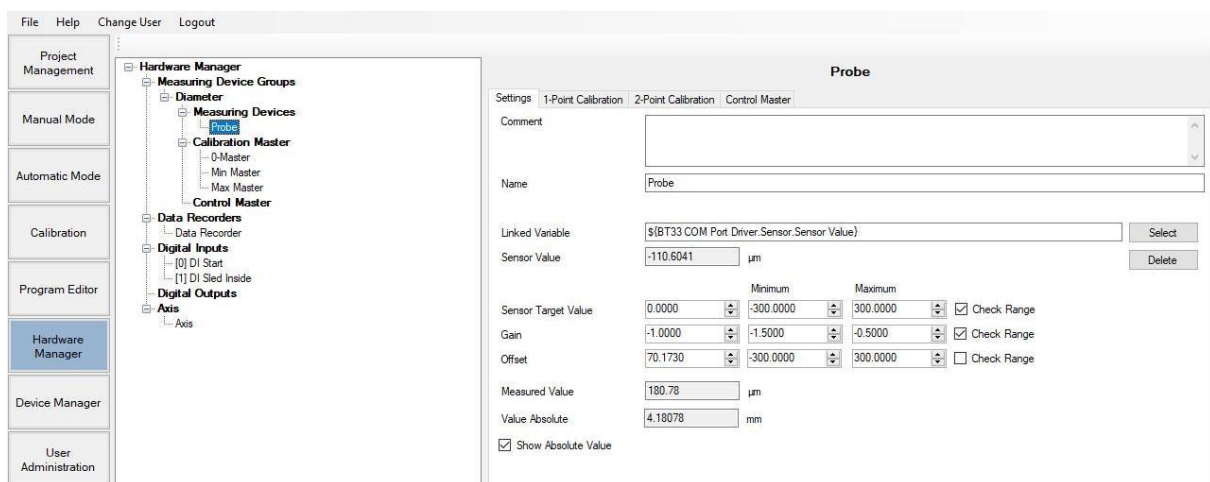


The screenshot shows the 'Axis Definition' dialog box. It contains the following fields and controls:

- Name:** Axis 1
- Number:** 1
- Comment:** (empty text area)
- Measuring Device:** Diameter.Probe (with 'R' and '>' buttons)
- Data Recorder:** Data Recorder (with 'R' and '>' buttons)
- Axis:** Axis (with 'R' and '>' buttons)
- Zero Point:** -31.570
- Upper Limit:** 0.000
- Lower Limit:** -62.170
- Digital Inputs:** A table with columns: Index, Digital Input, State, Comment. It includes control icons (+, -, up, down, refresh).
- Digital Outputs:** A table with columns: Index, Digital Output, State, Comment. It includes control icons (+, -, up, down, refresh).
- Ok** button at the bottom right.

Hardware Settings

The BontScan SE Software is developed for Bontech and Seewald ZMG-S gauges. Other hardware can be implemented on request.



The screenshot shows the 'Hardware Manager' interface with the 'Probe' settings panel open.

Hardware Manager Tree:

- Hardware Manager
 - Measuring Device Groups
 - Diameter
 - Measuring Devices
 - Probe (selected)
 - Calibration Master
 - 0-Master
 - Min Master
 - Max Master
 - Control Master
 - Data Recorders
 - Data Recorder
 - Digital Inputs
 - [0] DI Start
 - [1] DI Sled Inside
 - Digital Outputs
 - Axis
 - Axis

Probe Settings Panel:

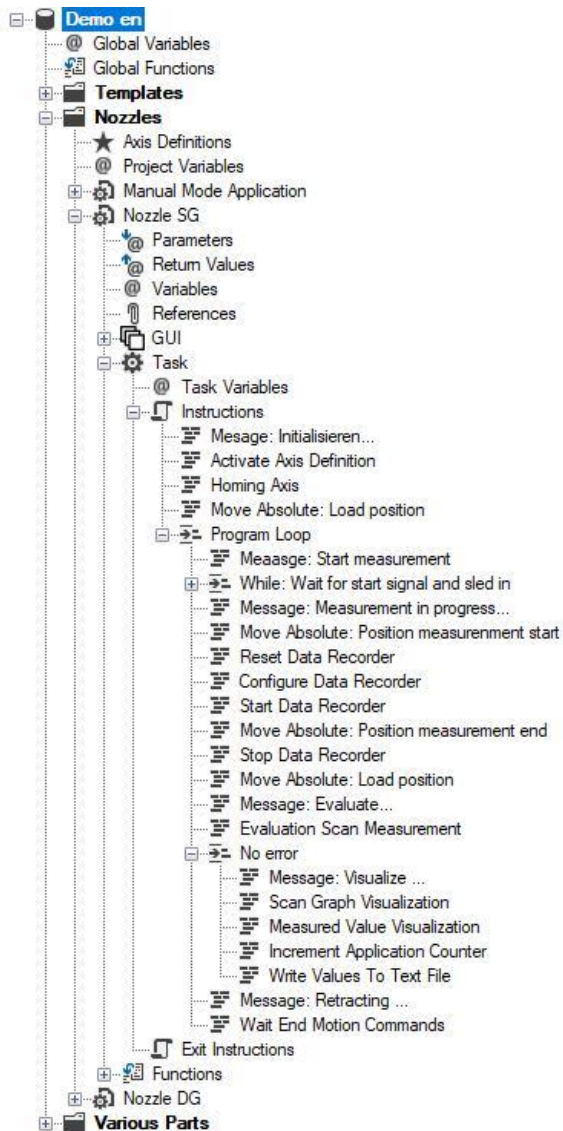
- Settings:** 1-Point Calibration | 2-Point Calibration | Control Master
- Comment:** (empty text area)
- Name:** Probe
- Linked Variable:** \$[BT33 COM Port.Driver.Sensor.Sensor Value] (with 'Select' button)
- Sensor Value:** -110.6041 μm (with 'Delete' button)
- Sensor Target Value:** 0.0000 (with 'Minimum' and 'Maximum' dropdowns: -300.0000, 300.0000) and 'Check Range' checkbox (checked)
- Gain:** -1.0000 (with 'Minimum' and 'Maximum' dropdowns: -1.5000, -0.5000) and 'Check Range' checkbox (checked)
- Offset:** 70.1730 (with 'Minimum' and 'Maximum' dropdowns: -300.0000, 300.0000) and 'Check Range' checkbox (unchecked)
- Measured Value:** 180.78 μm
- Value Absolute:** 4.18078 mm
- Show Absolute Value

Programming

In the programming editor almost any program sequence can be created:

- Programming dialogues
- Calculation values
- Auto calibration in a defined interval
- Control a data matrix code reader
- Display warnings or messages
- etc.

The program is created in a structure tree. No knowledge about programming languages are necessary.

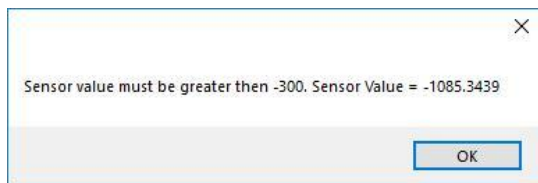


Calibration

A calibration mode for air gauges and for contact gauges is available. 1-point or 2-point calibrations are possible, depending on the measuring equipment.

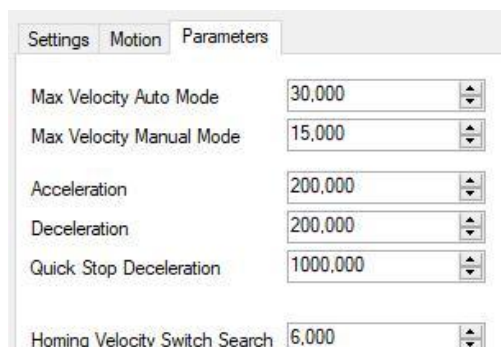
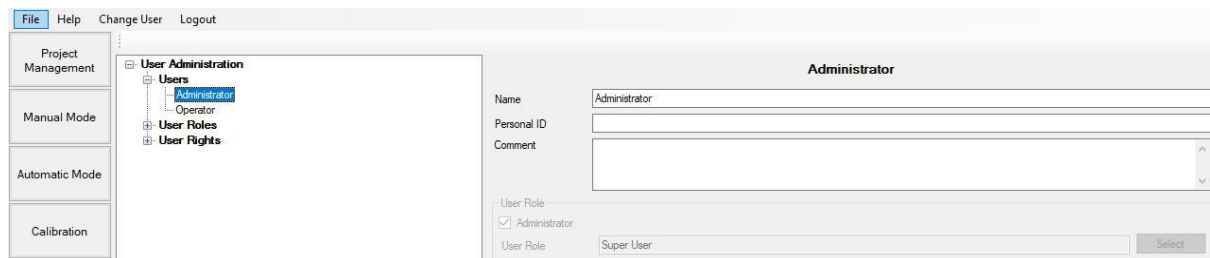


To avoid calibration errors, a plausibility check can be done after the calibration.



Settings

The most important settings can be done in dialogue windows. User rights can be set. Changes can only be done by authorized people.



Minimum Hardware Requirements

We recommend only using computers provided from us. We don't guaranty the full functionality on system provided by third parties.