

After this, the measuring values of the new part can be saved (either every value separately, e.g. by foot switch, or via a formula).

Note : The highest data transmission rate can be achieved with a formula, e.g. “1=1” / “Rx=1” / ... :

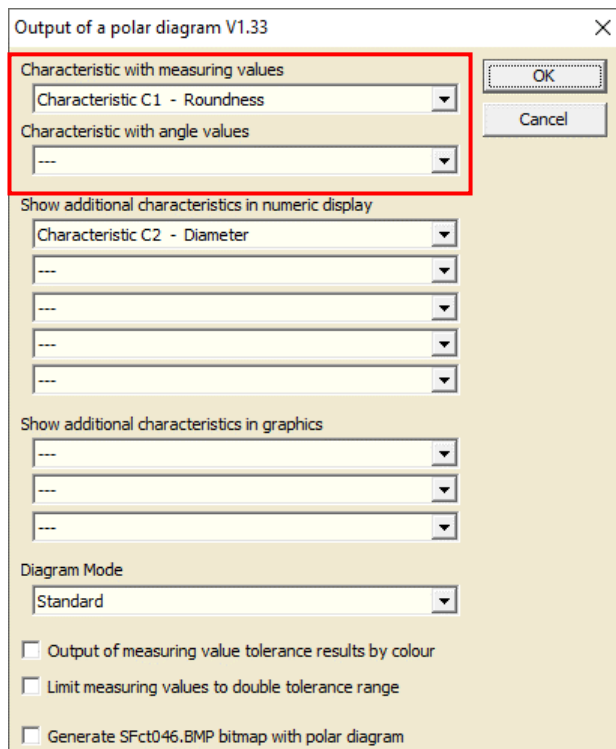
LISTE DER ANGELEGTE FUNKTIONEN					
Funktion	Funktionsta	Hand/Fußta	Digitaler Ein	Ereignis	EP
Speichern von Messwerten : C1	---	---	---	Formel : 1=1	6
Löschen aller Messwerte : C1	---	---	---	Prüfschritt-Start	8
Weiterschalten zum nächsten Prüfschritt	---	---	---	Formel : Timer(10000,1)=1	12

After saving the new measuring values, execute the function “Output of a polar diagram”.

3. Configuration

This test step function allows the following settings :

1.) “Characteristic with measuring values” and “Characteristic with angle values”



The dropdown box “Characteristic with measuring values” can be used to select the characteristic whose measuring values shall be displayed in a polar diagram.

The dropdown box “Characteristic with angle values” can be used to select a characteristic which contains the angle values (0° ... 360°) that belong to the measuring values. If no characteristic with angle values is selected, the measuring values are distributed evenly over the 360°.

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“Output of a polar diagram”



- 2.) “Show additional characteristics in numeric display” and “Show additional characteristics in graphics”

Up to 5 additional characteristics can be selected to be displayed in the numeric display (in the upper right area) to provide additional information for the user (e.g. display of the calculated roundness, display of the calculated diameter, ...).

It is also possible to display the measuring values of up to 3 additional characteristics in the polar diagram. The available number of measuring values for the additional characteristics has to be the same as for the original characteristic.

- 3.) *Diagram Mode*

Under “Diagram Mode” there are two options available.

If “Standard” is selected, a polar diagram is created out of all saved measuring values of the characteristic.

If “Partial Measuring (3 x 3 values)” is selected, a polar diagram is created out of 3 x 3 measuring values.

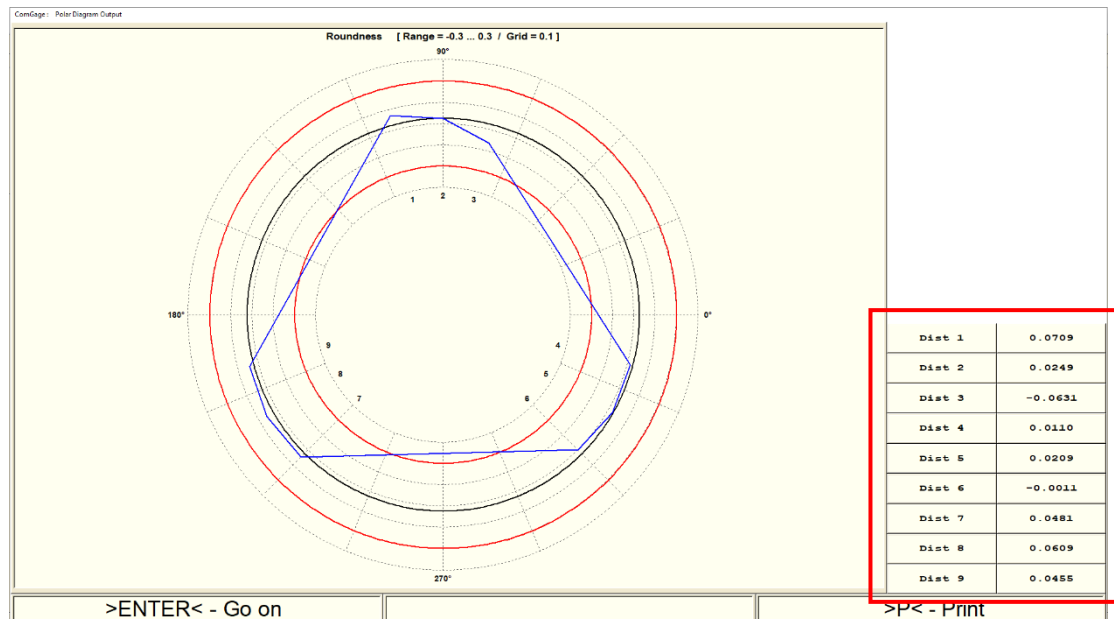
Caution : If this option is used, exactly 9 saved measuring values have to be available for the selected characteristic, when this test step function is executed. If the number of saved values is different, an error message is shown and no polar diagram is displayed.

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“Output of a polar diagram”



In addition to the diagram, the nine related measuring values are displayed in the lower right area (marked red) :



4.) Output of measuring value tolerance results by colour

If this option is activated, coloured dots are used to show the tolerance position of the individual measuring values (red = outside the tolerance, yellow = inside the tolerance, but outside the controlling limit, green = inside the tolerance and the controlling limit).

5.) Limit measuring values to double tolerance range

If this option is activated, all measuring values that are outside the double tolerance range are limited.

6.) Generate SFct046.BMP bitmap with polar diagram

If this option is activated, the polar diagram is stored as bitmap file SFct046.BMP in the directory which was selected as “Directory for Pictures” in the menu “Options / Data Directories”.

Caution: If a file with this name already exists there, it is overwritten.

The polar diagram is not displayed on the screen.

Notes :

- With help of the SFct031 (Execution of a file) and a batch file, the bitmap file can be renamed, if several polar diagrams shall be created.
- The polar diagrams (= bitmaps) can be integrated in the display window.
- The polar diagrams (= bitmaps) can be integrated in Excel reports (see SFct026 - Label-Printout by MS-Excel).