



# HEIDENHAIN



## QUADRA-CHEK 2000

Addendum

Evaluation Unit  
1235700.1.0.1

English (en)  
11/2018

# 1 Information about the Addendum

## 1.1 Document category

### Addendum

These instructions are an **Addendum** to the Operation Instructions for the product.  
The Addendum

- has the highest reading priority of all documents and
- supplements or supersedes the contents of the Operating Instructions and, if applicable, of the Installation Instructions.

All other contents of the Operating Instructions and, if applicable, of the Installation Instructions retain their validity.

### Firmware changes

Changes to the firmware of the device have been made that affect the contents of the Operating Instructions for the device.

In the following, you will find all of the changes and supplements for the current Operating Instructions with document ID 1246323-00-A-01.

Product designation	ID	Firmware version	Index
QUADRA-CHEK 2000	1089180-xx	1235700.1.0.1	---

The ID label is provided on the back of the product.

Example:








- 1 Product designation
- 2 Index
- 3 Part number (ID)

## 2 Changes to the chapter "Basic operation"

### 2.1 Operating elements of the OED tool palette






#### Operating Instructions chapter affected: 6.8.3 "Measure Menu"

The operating elements of the tool palette are available only if a software option is enabled. They are displayed only in the manual measuring function if optical edge detection is activated.

Crosshair	OED	Auto OED	Teach Contrast	Teach Offset
				

## 2.2 OED measuring tools

Operating instructions chapter affected: 6.13 "Using measuring tools"

Symbol	Measuring tool	Functions and characteristics
	Crosshair	<ul style="list-style-type: none"> <li>Manual acquisition of single measuring points</li> <li>No automatic acquisition of light-to-dark transitions</li> </ul>
	OED	<ul style="list-style-type: none"> <li>Active measuring tool</li> <li>Acquisition of light-to-dark transitions</li> <li>Buffering of a single measuring point (manual confirmation required)</li> </ul> <p>If the OED sensor traverses an edge, a measuring point is buffered in the clipboard. If the OED sensor traverses another edge, the buffered measuring point is overwritten. When <b>Enter</b> is tapped, the previously buffered measuring point is added to the feature calculation.</p>
	Auto OED	<ul style="list-style-type: none"> <li>Active measuring tool</li> <li>Automatic acquisition of measuring points (e.g., on circles and circular arcs)</li> <li>Acquisition of light-to-dark transitions</li> </ul> <p>If the OED sensor traverses an edge, a measuring point is automatically acquired and added to the feature calculation.</p>
	Teach Contrast	<p>Starts the <b>OED contrast teach sequence</b> dialog.</p> <ul style="list-style-type: none"> <li>▶ Tap <b>Teach Contrast</b></li> <li>&gt; The teach sequence is started</li> <li>▶ Follow the instructions in the dialog</li> <li>▶ Close the dialog with <b>OK</b></li> <li>▶ In the case of multiple magnifications, repeat the procedure for all of the available magnifications</li> </ul>
	Teach Offset	<p>Starts the <b>Measure circle with cross hair measuring tool</b> dialog.</p> <ul style="list-style-type: none"> <li>▶ Tap <b>Teach Offset</b></li> <li>&gt; The teach sequence is started</li> <li>▶ Follow the instructions in the dialog</li> <li>▶ Close the dialog with <b>OK</b></li> </ul>

## 3 Changes made to the "Settings" chapter

### 3.1 Encoder

Operating Instructions chapter affected: 15.7.8 "Encoder"

Path: Settings ► Axes ► X, Y ... ► Encoder

Settings for encoders with interfaces of the types 1 V<sub>PP</sub>, TTL, and 11 μA<sub>PP</sub>

The following settings supplement the settings in the Operating Instructions.

Parameter	Explanation
<b>Line count</b>	For angle encoders and for the display of a rotary axis as a linear axis with 1 V <sub>PP</sub> interface. Number of lines <ul style="list-style-type: none"> <li>■ Setting range: <b>1 ... 1000000</b></li> <li>■ Default value: <b>1000</b></li> </ul>
<b>Output signals per revolution</b>	For angle encoders and for the display of a rotary axis as a linear axis with TTL interface. Number of lines <ul style="list-style-type: none"> <li>■ Setting range: <b>1 ... 10000000</b></li> <li>■ Default value: <b>18000</b></li> </ul>
<b>Teach sequence</b>	Starts the teach sequence for determining the <b>Output signals per revolution</b> (TTL) or the <b>Line count</b> (1 V <sub>PP</sub> , 11 μA <sub>PP</sub> ) for an angle encoder based on a specified angle of rotation.
<b>Display mode</b>	For angle encoders and for the display of a rotary axis as a linear axis. Settings: <ul style="list-style-type: none"> <li>■ - ∞ ... ∞</li> <li>■ <b>0° ... 360°</b></li> <li>■ <b>-180° ... 180°</b></li> <li>■ - ∞ ... ∞</li> </ul>
<b>Interpolation</b>	Interpolation value of the angle encoders with TTL interface and integrated interpolation for the evaluation of the coded reference marks. Settings: <ul style="list-style-type: none"> <li>■ <b>None</b></li> <li>■ <b>2-fold</b></li> <li>■ <b>5-fold</b></li> <li>■ <b>10-fold</b></li> <li>■ <b>20-fold</b></li> <li>■ <b>50-fold</b></li> <li>■ Default value: <b>None</b></li> </ul>

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