



**AQ STYL**  
**SLOVAKIA**

DEVICE TO MEASURE RADIUS AND DEVIATIONS OF SHAPE  
AND DISTANCE FROM THE FACE OF BALL BEARINGS

## **MPTR – 20PC/AQ**

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DEVICE TO MEASURE RADIUS AND DEVIATIONS OF SHAPE  
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**MPTR – 20PC/AQ**

**1. General information, measurement scope:**

The measuring device MPTR 20C / AQ is designed to measure the radius absolute value, shape deviations and the distance from the face in one plane of the rings of ball radial, axial and radial-axial, single-row and double-row bearings. The device construction is designed for work in the manufacturing measuring laboratories (centres).

**2. Technical data:**

Scope of the measuring radiuses:	1,5 – 20 mm
Precision of the radiuses measuring:	$\pm 1 \mu\text{m}$ from ideal radius
Distinguishing ability to measure the deviation:	0,1 $\mu\text{m}$ ;
Scope of measuring the shape deviations:	$\pm 50 \mu\text{m}$ ;
Scope of measuring the distance from face:	0 – 999 $\mu\text{m}$ ;
Dimensions of the parts:	min. diameter 5 mm; max. diameter 270 mm;
Time to measure and calculate the value:	15 seconds
Time to set the measuring part:	Up to 1 min.
Time to set to another type or dimension:	Up to 3 min.
Results displaying method:	Radius value (mm), Shape deviation (J.im), its slope (rad.) and distance from the face (mm) in form of numbers together with a graph of shape dimensions' changes and description on the display or printer.
Control:	Keyboard or mouse
Device's attestation temperature:	$+20\text{ }^{\circ}\text{C} \pm 3\text{ }^{\circ}\text{C}$
Working temperature:	$+10\text{ }^{\circ}\text{C} \div +30\text{ }^{\circ}\text{C}$
Relative humidity:	40% - 80%
Air pressure:	86 000 H/m <sup>2</sup> - 106 000 H/m <sup>2</sup>
Supply voltage:	230 V $\pm 10\%$
Supply voltage frequency:	50 Hz
Supply voltage form:	alternating, sinusoidal
with a distortion of less than 50%	
Input:	110 VA
Fuse:	F 8 000 mA
Dimensions, weight: - electronical part	340x280x380 mm, 13 kg
- display unit	340x280x380 mm, 13 kg
- mechanical part	460x170x280 mm, 33 kg

