Zumbach

SWISS PRIME MEASURING SINCE 1957

Automatic Off-line Measuring Station for Outside Diameter and Ovality Measurement of Wire, Cable or Tube Samples.

QC 2 – Piece Measurement

The QC 2 system consists of a high precision diameter measuring head, a motorized rotating sample holder with automatic sample ejection and a processor **USYS-Touch** with special software evaluating the captured values. The system provides fast and accurate measurements of manufactured parts or cut samples. QC 2 can be used either in quality control (QC) laboratories or on factory floors. It provides operators a simple and repeatable solution for parts measurement and immediate notification of meeting specification within given tolerances. Unlike other micrometers or mechanical indicators that can give errors due to poor zero setting, end play, calibration or are sensitive to user input, QC 2 provides repeatable measurements regardless the operator.

QC 2 Advantages and Benefits

- Accurate and easy to use measurement method.
- Quick feedback for production optimisation.
- Quick sample positioning thanks to the special designed rotating holder.
  The mounting fixture ensures the test piece is always properly positioned within the gauge.
- Automatic rotation and measurement start by single key press.
- Automatic sample ejection for products up to 5 mm (.2 in.); manual removal for sample up to 18 mm (.7 in.). Sample length = 40 – 50 mm (1.57 – 1.97 in.)
- The operator is free to make as many measurements around the circumference of the sample as desired. Simple statistics of the resultant values will be computed.
- By simply pressing one key the min., max., average and standard deviation of the samples measurements are calculated and are available to printout.
- The calculated values can be uploaded to a host computer for further processing.

Technical Data

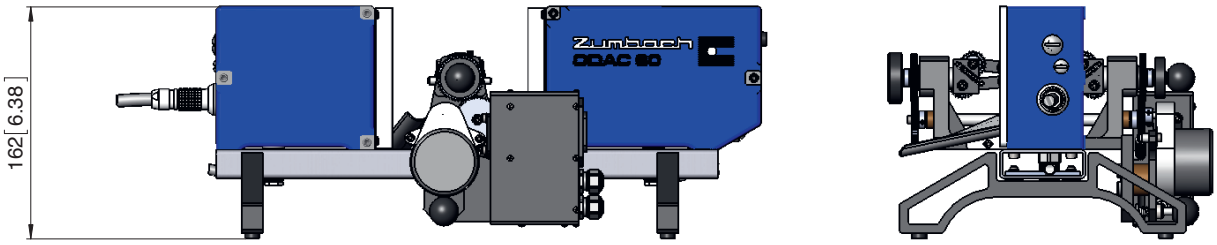
Measuring Head ODAC 60J	
Diameter range	0.25 – 5 mm (0.01 – 0.2 in.) with automatic sample ejection 5 – 18 mm (0.2 – 0.7 in.) with manual sample removal
Repeatability (3 σ)	0.50 µm (0.000020 in.), averaging time 0.1 s 0.25 µm (0.000010 in.), averaging time 1.0 s
Light source	Visible laser diode, laser class 2
Protection class	IP 65

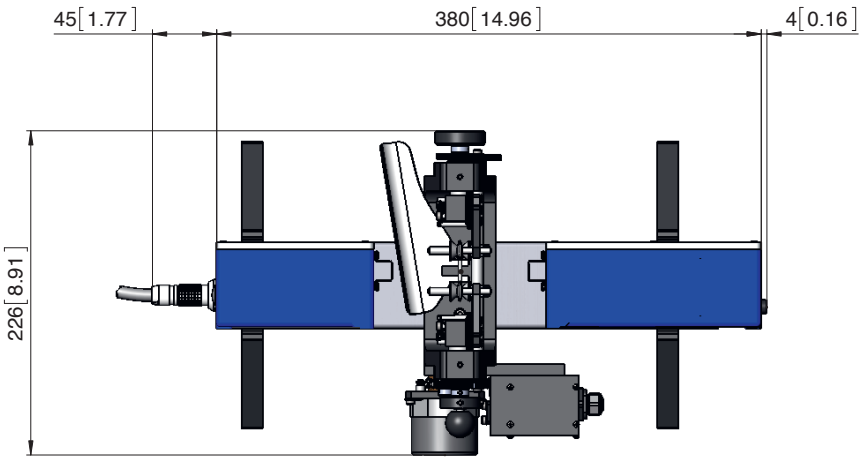
► For other ODAC types, please contact Zumbach Electronic AG

Processor USYS-Touch	
Display	15" LCD TFT Touch screen
Functions	- Display of measurement value - Communication with computer - Printing
Features	- 3 Digital inputs (statistic, start/stop, pause, etc.) - 2 Counter inputs (length sensor, event counter, fault counter, etc.) - Analog output +/- 10 V - 5 Digital outputs - 3 Relays - 2 Serial interfaces RS-232/RS-422 - 1 HDMI - 2 USB 3.2 Gen 1 - CompactFlash card - 2 Ethernet
Protection class	IP 20

• Technical specifications are subject to change without notice

Dimensions





Dimensions in mm (inch)

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