Zumbach

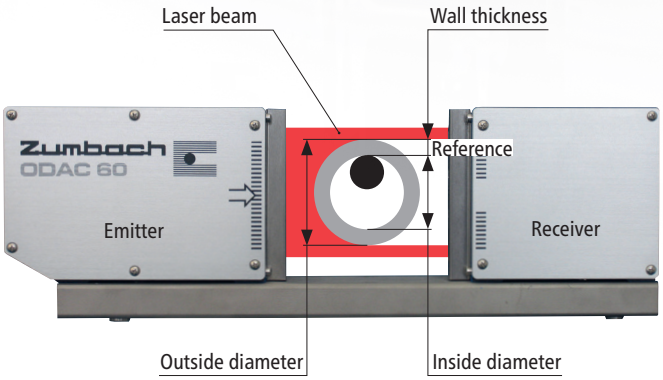
SWISS PRIME MEASURING SINCE 1957

Off-line Piece/Part Measuring Station for Outside Diameter, Inside Diameter and Wall Thickness Measurement of Hose and Tube Samples.

# QC 4 – Piece Measurement

The QC 4 system consists of a high precision diameter measuring head combined with a processor **USYS-Touch** with special software evaluating the measured values of the outside diameter and the calculation of inside diameter and wall thickness of hose and tube samples. The system provides fast and accurate measurements of manufactured parts or cut samples of extruded products. QC 4 can be used either in quality control (QC) laboratories or on plant floors. It provides operators a simple and repeatable solution for measuring parts and immediate notification of meeting specification within given tolerances.

## Operating Principle




## Accurate and User Friendly Method of Measurement

- The sample to be tested is placed on a reference pin.
- The operator is free to make as many measurements around the circumference of the sample as desired.
- 2 types of statistics:
  - 1 measurement over several samples
  - Several measurements over 1 sample
- By simply pressing one key the min., max., average and standard deviation of the sample measurements are calculated and are available to printout.
- The calculated values can be uploaded to a host computer.

## Technical Data

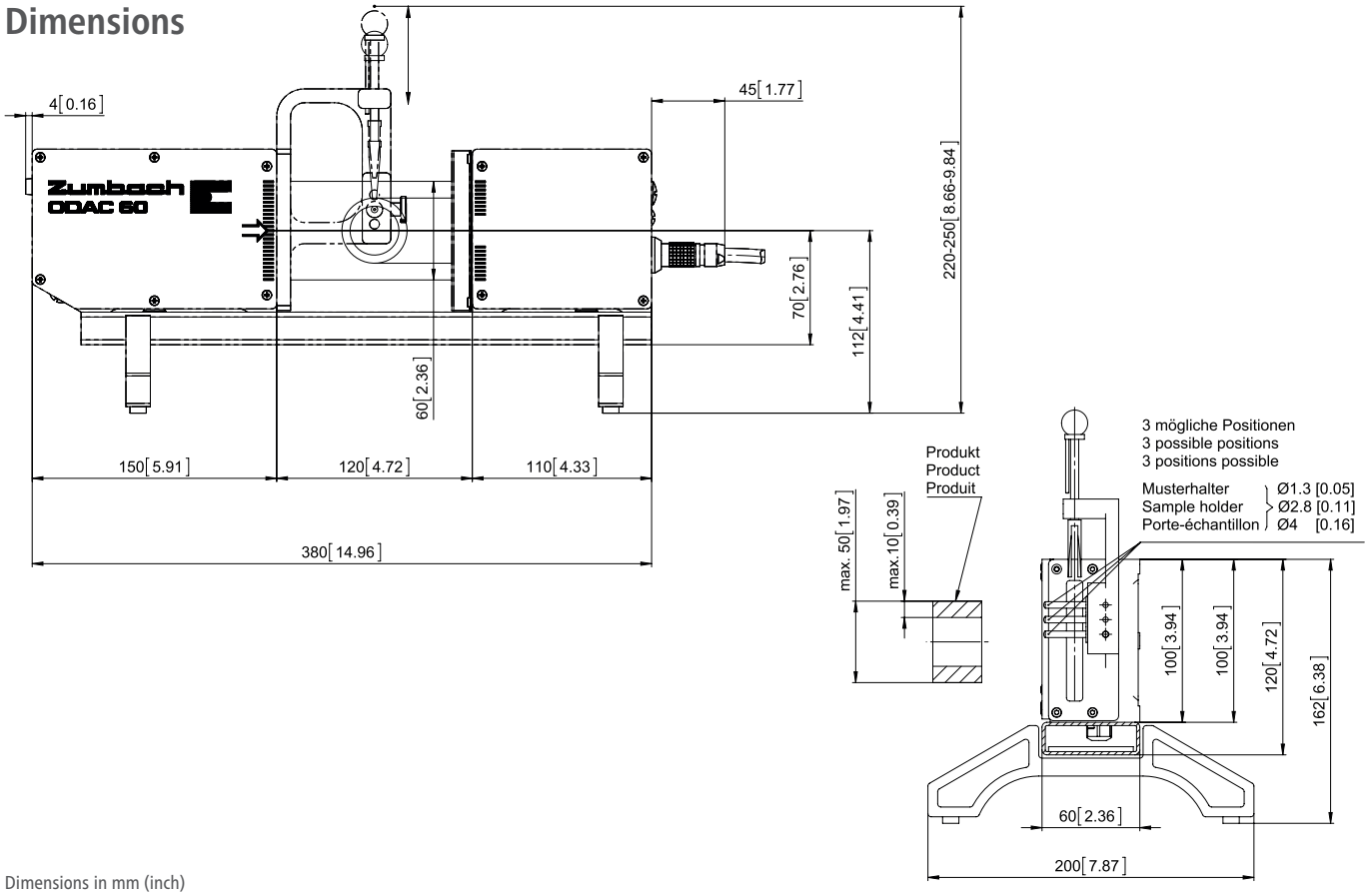
| Measuring Head ODAC 60J | |
|---|---|
| Max. diameter | 50 mm (1.97 in.) |
| Max. wall thickness | 10 mm (0.39 in.) |
| Repeatability (3 σ) | 0.25 µm (0.00001 in.) |
| Light source | Visible laser diode, laser class 2 |
| Protection class | IP 65 |

► For other ODAC types, please contact Zumbach Electronic AG

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

• Technical specifications are subject to change without notice

## Dimensions




Dimensions in mm (inch)

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