

# REINHARDT

## System- und Messelectronic GmbH

### ZE 300 Electronic Component Counter

- counts radial, axial and SMT-components
- optional mechanical attachment for transparent SMT-tapes
- less than 1 miscount in 1 million components in counting forwards and backwards
- high counting speed up to 1,000 components per second
- connector pins can be set from 1 to 16
- acoustic and optical display for selection count
- microprocessor-controlled, graphical display
- up to 8 hours operation with accumulator
- robust steel plate unit
- RS232-interface for charging the counter and evaluating the number of pieces (option)
- UV 300 tape winder for counting and rewinding rolled tapes to standard rolls (e.g. 7", 13" or 22") for component insertion machines
- development, production, service and sales in one hand

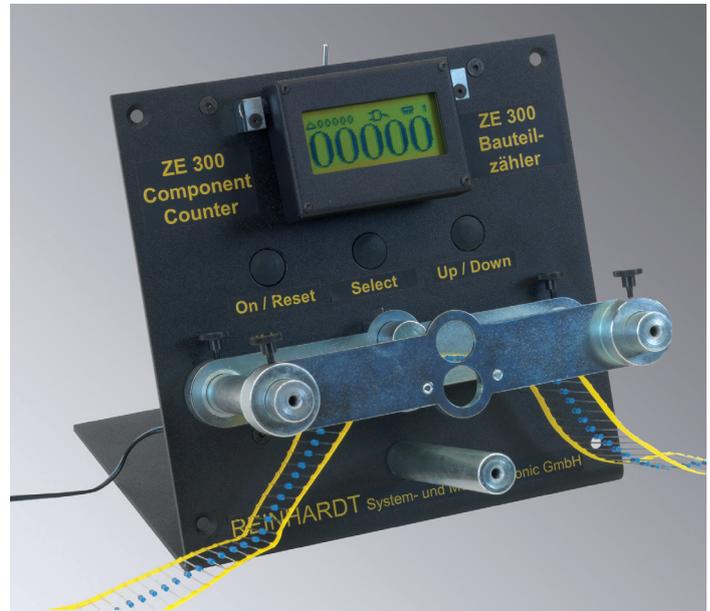
In 1976 REINHARDT System- und Messelectronic GmbH developed and produced the first generation of component counters. The ZE 300 Electronic Component Counter is the 7th generation of component counters which have been sold worldwide in large numbers.

The ZE 300 Electronic Component Counter is used for counting components precisely. In this way, you can control the delivered lots of SMT- and radially and axially bandoliered components when received, stored or handed out. For commissioning, the device can be connected to a computer via its RS232-interface. A 230 V-mains supply is required for operation.

It is known that the component counters are often used under conditions which are harsh for a unit with an optical system. Therefore the ZE 300 is made of steel plate with high material thickness. Its robust construction guarantees the necessary stability for counting and its reliability within the very harsh environment of stores. Even if it slightly drops, the ZE 300 is not damaged. The optical system is re-calibrated automatically. The system diagnose registers that the light barrier is contaminated.

#### Counting Accuracy

Its optic system keeps the light intensity constant for years. The ZE 300 component counter counts error-free, even if the tape is repeatedly torn there and back. In counting backwards and forwards, the mistake is less than 1 : 1 million.



#### Usability

SMT-components with tape widths from 8mm to 60mm can be counted. Radial and axial bandoliered components can be handled with tape widths of 70 mm or 75 mm resp. Transparent SMT-components can be counted with the optional mechanical attachment. The housing is slightly sloping so that the rolls can be put on comfortably and the tape can be fed in easily. Even a layman with little technical skills can operate the device. The display is tilting so that the display can always be seen best, no matter if you work sitting or standing.



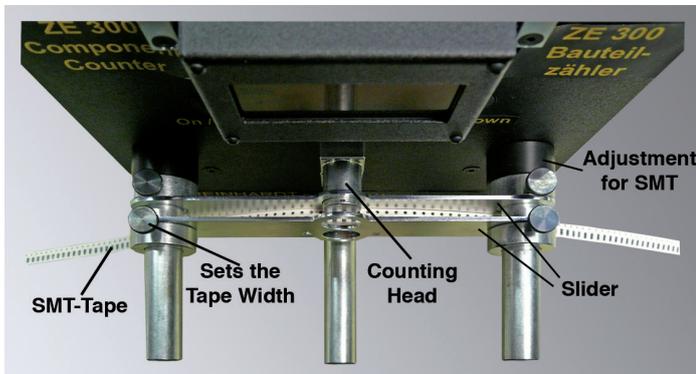
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With the ZE 300, you can select the number of pieces and the counting direction. There is an acoustic and graphical display when the selected number is reached. The acoustic indication can be turned off. The charging condition of the internal accumulator is displayed in the upper centre of the display.



Three pushbuttons are used for setting the component counter for whatever task it may fulfil. The left button turns the unit on and off and resets both counter and function. With the button in the middle, you select menus and functions, with the right one you select the functions. You enter the number of pieces to be counted, and, for radial components, the number of contact pins. By menu, you select the baud rate, i.e. the speed for data transmission to the computer, you turn on and off the acoustic signal, you set the



contrast of the display and the voltage display of the inherent accumulator. Components are counted as usual, but with the function button, you can set the number of components you want to count. The closer you get to the number you have set, the higher the tone of the signal becomes. A high pulsing tone finally indicates that the desired number of pieces has been reached. The graphic LCD display tells you to separate the tape.



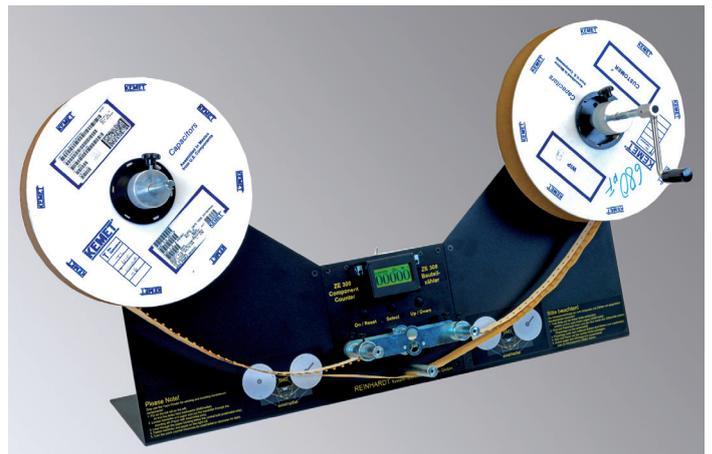
All common tape widths are set with a slide.

### Interface

For communication with computers the ZE 300 component counter can be remote-controlled for numbers of pieces, number of pins and reading the counted value. Via the ZE 300-interface, the counted values are transmitted to the computer, where you can program the number of pieces and, if necessary, the contact pins so that a quick commissioning is possible. You can set baud rates of 1200, 2400, 4800 and 9600.

### ZE 300 with Tape Winder Expansion UV 300

Bandoliered tapes on rolls are counted in conjunction with the UV 300 tape winder. Its robust steel plate construction accepts rolls of any producer in the standard diameters 7", 13" and 22" and others up to ca. 680 mm and 90 mm tape width. Paper management ensures that tape and paper backing wind on neatly after counting. Winding and counting is done manually with a crank.



### Technical Data

Max. number: 99,999  
 Apertures or pins per component: 1–16  
 Counting speed: 1,000 components per second  
 Accuracy: 1 : 1 million  
 Display: graphical; 5 positions  
 Current consumption: 75 mA  
 Dimensions ZE 300: 200 mm wide, 200 mm high, 270 mm deep  
 Dimensions ZE with tape winder expansion: 830 mm wide, 400 mm high, 270 mm deep  
 Weight ZE 300: 4 kg  
 Weight ZE with tape winder expansion: 13 kg  
 Max. reel diameter: 680 mm  
 Max. tape width axial: 75 mm, radial: 70 mm, SMT: 60 mm

All prices are plus VAT (in Germany) and plus packing and shipment.  
 IE & OE Specifications subject to change without notice. 11/2017