

CVU.

Measure/Verify Diodes and LCR Properties of Components

The "Component Verification Unit" is used for a value check of a component before being placed on a PCB. It is possible to measure up to four components at the same time*. It's mounted on a versatile station. Following SMD components (2-pins) can be measured:

- Resistors
- Capacitors
- Inductors
- Diodes
- Z Diodes



Component Verification Unit

This option is available for the Paraquada and the Cobra. The measuring unit is fully integrated within the machine. Electrical conductivity of certain nozzles in combination with component sizes makes it necessary to use a special, non conductive nozzle named "Nozzle 02 CVU". Furthermore, a special, red colored "CVU-calibration nozzle" is needed for a calibration of the measuring unit. The brackets are mounted in a versatile station. All mentioned components are included in the package.

* Please take note that using the CVU will result in a lower CPH, which can vary depending on the type of components which have to be measured and its amount.

Component	Condition	Measurements
XY UBGA46	No measuring	0
XY S014	No measuring	0
XY BGA196	No measuring	0
OR 01005	Conditional	0
470R 0201	Conditional	0
1K 0402	Conditional	0
10K 0403	Conditional	0
4K7 0805	All	34
XY CON_30x0.4	No measuring	0
XY CON_30x0.5	No measuring	0
XY CON_30x0...	No measuring	0

CVU Specifications

	Components	Values	Tolerances
Measurement range	Resistance	10 Ω - 10 M Ω	< 1%
	Capacity unipolar	100 pF - 10 uF	< 1%
	Capacity bipolar	100 nF - 1 mF	< 1%
	Inductance	10 uH - 1 mH	< 1%
	Diode Polarity	Max. 5 V forward Voltage	
Component size	Chip 0402 - 2512		

Configurations:

Following sales articles and its configurations are available:

PC-CVU₁ - Measuring System for one component measuring at a time (one measuring bracket)

PC-CVU₄ - Measuring System for up to four components measuring at a time (4 measuring brackets)

Field upgrades on Paraqda or Cobra systems are available. Installation has to be realized by an Essemtec technician.