



Semiconductor analyser

The **AS4002P** is able to detect and analyse an impressive number of component. Just insert a component in the integrated socket or through the mini-pincers cable and the instrument instantly displays its pinout and a great number of its parameters (like current gain, leakage current, saturation current, voltage drop etc.). Used to recognise any component with an unknown or deleted marking, to pair semiconductors or to save precious time avoiding research for carcteristics, the **AS4002P** is an instrument that will soon become essential in any development or maintenance laboratory.

The **AS4002P** not only displays the pinout (sometimes incomplete) of FETs as do the other instruments. The analyzer also calculates indeed a large number of parameters such as saturation current, threshold voltage, drain-source resistance, and displays the corresponding full pinout.

Performance and simplicity

The **AS4002P** allows analysis in real time, eliminating unnecessary handling and binding that is normally encountered in this kind of instrument.

The list of components found is impressive: bipolar transistors, Darlington transistors, field effect transistors, enhancement and depletion MOSFETs, thyristors and triacs, low power, unijunction transistors, diodes, LEDs.

It is also able to detect the presence of a protection diode, an integrated base-emitter resistance or short circuit. An optional module also allows measurement of parameters of photo-couplers or optical forks.

Characteristics :

Recognised semiconductors:

Bipolar transistors, Darlington, MOSFET, enhancement FETs, Triacs, thyristors, diodes, unijunction transistors, defective components in short-circuit, opto-couplers (with option OP1)

Measured parameters

H_{FE} , V_{BE} , I_B , I_{CE0} , collector current. Threshold voltage V_{T0} (MOSFET and JFET)
 I_{DSS} , R_{DSON} (JFET)
 Direct current and voltage, Leakage current (diodes)
 R_{BB} and η (UJT)
 CTR, direct voltage/current (opto-couplers, option OP1)

Detection of integrated base-emitter resistance.
 Detection of integrated collector-emitter diode.



General features:

Supply :

7 to 15V, 100mA max

Int.: 9V battery

Ext. Power supply jack socket.

Autonomy : 4 h (about 500 measures)

Display: 2 lines of 16 characters LCD with backlight.

Temperature range: +5°C to +50°C

Dimensions: 130(L) x 29(P) x 60(H)

Weight: 125g (without battery)

Accessories :

Mini-pincers cable for large components.

Options :

SMT adaptor for SOT-23.

