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T1202

I.C. COMPARATOR/20 VOLT D.V.M.



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DESCRIPTION

The T1202 is designed to be used with the Polar T1200 (or T1000) Faults Locator. It acts as a switch by routing a particular I.C. pin (selected by the front panel switch) to the T1200 or to its front panel 20 Volt digital voltmeter. It is used on UNPOWERED boards with the T1200, and powered boards with the D.V.M.

CONNECTING UP TO A T1200

1. Using the 2 leads supplied with the T1202, connect the 2 sockets marked "TO 1200" to the T1200 "A" and Common sockets.
2. Select button "A" and the measurement range required (LO or HI) on the T1200.
3. Set the T1202 toggle switch to "T1200".

USING THE UNIT

- A. Unpowered boards with the T1200. (See picture).
1. The T1202 has three 4mm sockets in its lower half. These may be used in the same way as the three sockets on the T1200. The rotary switch must be set to "SOCKETS" and the T1200 probes plugged into the T1202.
 2. The T1202 has a toggle switch which selects either channel "A" or "A and B". The red L.E.D.s indicate the active channel.
 3. When using the two 16 pin I.C. clips the red sockets are not used BUT the T1200 leads must still be used in the T1202 BLACK socket to provide a common connection to the boards under test.
 4. Connect the I.C. clips to the devices under test. The leads exiting from the T1202 16 way sockets should point upwards. This will cause pin 1 of the I.C. clip to be a green wire. (See picture on back page).

5. The rotary switch may now be used to examine any individual I.C. pin. When the switch is selecting the I.C. pin that is connected to the COMMON lines (see 3 above) the T1200 will display a short circuit. REMEMBER there must be an I.C. clip AND a common connection to each board.
6. When connecting to a 14 pin I.C. pins 8 and 9 of the clips will be open. This means that I.C. pin 8 will be selected in rotary switch position 10, pin 9 in position 11 etc.

B.

Powered boards with the T1202 D.V.M.

1. Set the T1202 toggle switch to D.V.M.
2. The D.C. voltage that is present on the selected I.C. clip pin will now be displayed on the 20 Volt meter. (T1202 input resistance is 1M Ω).
3. In the "A and B" comparison mode the T1202 switching rate is automatically slowed in the D.V.M. mode. This is to allow time for the readings to settle.
4. Connections to the powered board are made in exactly the same way as described above i.e. using the I.C. clips and common leads.
5. The T1202 switch isolates the T1200 from the T1202 in the D.V.M. position removing any unwanted ground paths. In the T1200 position the COMMON leads are connected to ground via the T1200. Always isolate any external ground connections to the boards under test BEFORE returning to the T1200 switch position as well as removing its power.

I.C. CLIPS

Spare I.C. clips may be obtained from either your local distributor (order part number MQX132) or from a suitable manufacturer e.g. A.P. Products (order part number LC161). U.K. phone 0799 25014.