SUMMIT

SDM102

SDM102(103) OPERATING INSTRUCTIONS

FEATURES

- Easy to read 3 1/2 digit LCD display
- Low battery indication
- Audible continuity buzzer
- Auto ranging
- Data hold
- Compact pocket size
- Pocket size carrying case
- Attached test leads
- Diode test function
- Overrange indication
- Logic Level indication(SDM103 only)

SPECIFICATIONS

Ranges:
AC VOLTS: 0-2, 20, 200, 500V
DC VOLTS: 0-200mV, 2, 20, 200, 500V
OHM: 0-200, 2K, 20K, 200K, 2M, 20M
DIODE CONTINUITY
LOGIC : SDM103 ONLY

Accuracy:
AC VOLTS: ±2.5% of reading, ±8 digits (50-400Hz)
DC VOLTS: 0-200mV, ±2% of reading, ±4 digits
2V, ±0.7% of reading, ±4 digits
20, 200, 500V, ±1.3% of reading, ±4 digits
OHM: 0-200 ohm, ±2% of reading, ±4 digits
20M, ±10% of reading, ±8 digits
Logic : TTL and CMOS Logic Level Measurements.

General:
Display: 3 1/2 digit LCD, 0.591" high numerals, maximum reading "1999" with decimal points for all ranges
Operating Temperature: 32° to 122°F/0° to 50°C
Operating Humidity: 80% max R.H.
Power Supply: 1.5V button battery
Dimensions: 1 1/2"(w) x 7"(h) x 5/8"(d)
Includes: Carrying case, battery, test leads attached to meter and instructions.
Logic probe(SDM/103 ONLY)

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MEASURING PROCEDURE

Continuity Buzzer ⚠

Caution: Turn the test circuit power off and discharge all capacitors before attempting in-circuit resistance measurements.

1. Set the FUNCTION AND RANGE switch to the position.
2. Touch the ends of the test leads togther. An audible tone will be heard. This indicates continuity.
3. Connect test leads across circuit to be tested.

AC Voltage Measuring ⚠ ⚡

Warning: To avoid the risk of electrical shock, instrument damage and/or equipment damage, input voltages must not exceed 500 volts Peak AC. Do not attempt to take any unknown voltage measurements.

1. Set the rotary switch to ACV.
2. Connect test lead probes into circuit under test.

DC Voltage Measuring ⚠ ⚡

Warning: To avoid the risk of electrical shock, instrument damage and/or equipment damage, input voltages must not exceed 500 volts DC. Do not attempt to take any unknown voltage measurements.

1. Set the rotary switch to DCV.
2. Connect test lead probes into circuit under test.

Resistance Measurement ⚠

Caution: Turn test circuit power off and discharge all capacitors before attempting in-circuit resistance measurements.

1. Set the rotary switch to OHM.
2. Connect test leads to circuit under test or across unkown resistor.

Diode Measurement

1. Set the rotary switch to ⟶| and connect the test leads across the diode under measurement. (Note: The banded end of the diode is the "-" side in the forward condition.)
2. The meter displays the forward voltage drop in millivolts.

TTL and CMOS Logic Level Measurements.

1. Set the rotary switch to Logic
2. Plug the Logic Leads into the LOGIC Connector at the rear of the SDM103
3. Connect the black clip from the Logic leads to the Vss(Negative) Red Clip from the Logic leads to the Vcc (positive) terminal of the Logic Circuit under test.

NOTE : For TTL, Vcc =5 VOLTS
For CMOS, Vcc =3 to 18VOLTS.
Vcc MUST NOT EXCEED 19VOLTS. or damage to the instrument may result.

4. observe the red and the green LEDs on the SDM103, and use the following table to determine the status of the point under test:

INPUT STATUS	RED LED	GREEN LED
Floating	flashing	off
Logic Low	off	off
Logic High	on	off
Logic Pulses	any status	on

Data Hold

1. Depress the data hold switch to freeze the reading on the LCD display for all functions.

BATTERY REPLACEMENT

Warning: Before attempting to replace the battery, first disconnect the test leads from the circuit under test.

1. Remove battery cover.
2. Replace button battery observing correct polarity.
3. Replace battery cover.

ACCESSORIES	STOCK NO.
Alligator clips	AAC
Button battery 1.5V	AB13
Carrying case	AC16
Logic Probe	ALP

RETURNING FOR REPAIR

Before returning your instrument for repair, please make a quick check to insure the failure is not due to the following:

1. Low or dead battery