

TES-2732

Datalogger Multimeter



Product Features

- Easy Data Acquisition (Field/Laboratory)
- DMM talks with P.C. via RS-232 interface
- Data Logger function for Field recording without P.C. can record up to 4048 data
- Direct input of V, A, Ohm, Hz, Cx & °C/°F without any further signal modification
- Go/No Go (alarm output) used for control purpose

ELECTRICAL SPECIFICATIONS

Accuracies are $\pm(\dots\%$ of reading + ...digits) at $23^{\circ}\text{C}\pm 5^{\circ}\text{C}$, below 80% RH.

DC Voltage

| Range | Resolution | Accuracy | Input Impedance | Overload Protection |
|-------|------------|----------|-----------------|---------------------|
| 200mV | 0.1mV | 0.5%+1 | 10M Ω | 600Vrms |
| 2V | 1mV | | | 1100Vrms |
| 20V | 10mV | | | |
| 200V | 100mV | | | |
| 1000V | 1V | 0.5%+2 | | |

AC Voltage (50Hz to 500Hz)

| Range | Resolution | Accuracy | Input Impedance | Overload Protection |
|-------|------------|----------|-----------------|---------------------|
| 200mV | 0.1mV | 1%+5 | 10MΩ | 600Vrms |
| 2V | 1mV | | | 750Vrms |
| 20V | 10mV | | | |
| 200V | 100mV | | | |
| 750V | 1V | 1.2%+5 | | |

DC Current


| Range | Resolution | Accuracy | Burden Voltage | Overload Protection |
|-------|------------|----------|----------------|---|
| 200μA | 0.1μA | 1%+1 | 0.35V | 0.5A / 250V Fast Blow Fuse & Diode |
| 2mA | 1μA | | | |
| 20mA | 10μA | | | |
| 200mA | 100μA | | | |
| 20A | 10mA | 1.2%+3 | 0.8V | 20A / 380V Fast Blow Fuse 20A for 30sec max. 10A continuity |


AC Current (50Hz to 500Hz)

| Range | Resolution | Accuracy | Burden Voltage | Overload Protection |
|-------|------------|----------|----------------|---|
| 200μA | 0.1μA | 1.2%+3 | 0.35V | 0.5A / 250V Fast Blow Fuse & Diode |
| 2mA | 1μA | | | |
| 20mA | 10μA | | | |
| 200mA | 100μA | | | |
| 20A | 10mA | 1.5%+5 | 0.8V | 20A / 380V Fast Blow Fuse 20A for 30sec max. 10A continuity |


Resistance (Ω)

| Range | Resolution | Accuracy | Max. Open Circuit Voltage | Overload Protection |
|---------------|--------------|----------|---------------------------|---------------------|
| 200 Ω | 0.1 Ω | 0.8%+2 | 3.2V | 600Vrms |
| 2K Ω | 1 Ω | | 0.5V | |
| 20K Ω | 10 Ω | | | |
| 200K Ω | 100 Ω | | | |
| 2M Ω | 1K Ω | | | |
| 20M Ω | 10K Ω | 1.5%+3 | | |

Diode ()

| Range | Resolution | Accuracy | Max. Open Circuit Voltage | Max. Test Current | Overload Protection |
|---|------------|----------|---------------------------|-------------------|---------------------|
|  | 1mV | 2%+ 2 | 3.2V | 1.0mA | 600Vrms |

Continuity ()

| Range | Continuity Threshold | Max. Open Circuit Voltage | Overload Protection |
|---|---|---------------------------|---------------------|
|  | Continuity audible tone for tested resistance below 30 Ω | 3.2V | 600Vrms |

Frequency (Hz) (Test Range 10Hz - 10MHz Auto Range)

| Range | Resolution | Accuracy | Sensitivity | Overload Protection |
|--------|------------|----------|-------------|---------------------|
| 2KHz | 1Hz | 0.5%+2 | 1.5Vrms | 600Vrms |
| 20KHz | 10Hz | | | |
| 200KHz | 100Hz | | | |
| 2MHz | 1KHz | | | |
| 10MHz | 10KHz | | 3Vrms | |

Temperature Probe used : K (CA) type sensor

| Range | Resolution | Accuracy |
|-------|------------|---|
| °C | 0.1/1°C | 0°C~ 200°C ±(0.5%+1.5°C) -50°C~ 0°C ±(1% + 2°C) 200°C~ 1300°C ±(1% + 2°C) |
| °F | 0.1/1°F | 32°F~ 200°F ±(0.5% + 3°F) -58°F~ 32°F ±(1% + 5°F) 200°F~ 1999°F ±(1% + 4°F) |

Capacitance (F)

| Range | Resolution | Accuracy | Test Frequency |
|--------|------------|----------|----------------|
| 2000pF | 1pF | 3%+10 | 400Hz |
| 200nF | 100pF | | |
| 2μF | 1nF | | |
| 20μF | 10nF | | |

General Specifications:

Display:

3 1/2 Digital LCD Display Maximum Reading 1999.

Sampling Rate: 2.5 readings per second

Operating/Storage Condition:

0°C to 40°C<80% R.H.

-10°C to 60°C<70% R.H.

Power Source: one 9V Battery

Battery Life Approx. 60hours (Alkaline Battery)

9V Power adaptor jack for long time application

Size & Weight: 180(L)×82(W)×38(H)mm & 365g

Accessories: Test leads (pair), Spare fuse (0.5A/ 250V), Battery, Instruction manual, Software, RS-232 Cable, "K" type thermocouple (TP-K01).