

New Product

Differential Probe

Model TM25



TM25 (3 ranges: X20 , X50 , X200)



- ▶ 3 RANGE ATTENUATOR.
- ▶ 2 POWER SOURCE.
- ▶ 1000V INPUT CAT III
- ▶ LOW BATT. AUTO OFF.
- ▶ SEPARATING DESIGN.CONVENIENT, DURABLE.
- ▶ MEET CE, IEC 1010, EN 61010, UL 3111.

Band width (-3dB, 50Ω load): DC-25MHz . (x20: DC~15MHz)

Accuracy : $\pm 2\%$ at 20-30°C 70% RH after 20 minutes warm up.

Attenuation : x20, x50, x200 (Into 1MΩ scope) ; x40, x10, x400 (into 50Ω load)

Maximum operation Voltage (DC + peak AC):

$\leq \pm 140\text{V}$ at x 20

$\leq \pm 350\text{V}$ at x 50

$\leq \pm 1300\text{V}$ at x 200

Maximum input Differential Voltage : 1300V (DC + peakAC) or 1000V RMS

Maximum input Voltage to Ground : 1000V (DC + peakAC) or 600V RMS

Common Mode Rejection Ratio (CMRR):

60Hz : >10,000 : 1

100Hz: >1,000 : 1

1MHz: > 300 : 1

Noise : ≤ 2 mVrms (Into 50Ω load)

Input Impedance :

2MΩ, 2.3 PF between inputs and ground.

4MΩ, 1.2 PF between inputs.

Power : One internal 9V alkaline battery or external 6V-9V DC.

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WARNING

Do not use TM-25 above 1000V (DC + peakAC) between ground and the input or 1,300V (DC + peakAC) between the input lead.

Do not operate TM-25 in wet or damp condition.

Do not operate TM-25 in an explosive atmosphere.

Do not immerse TM-25 in liquids.

Do not operate TM-25 without covers.

Please change the battery when the "LOW BATT " LED is lighted. At this time TM-25 can operate but not guaranteed the accuracy.

DP-25 can not operate if both POWER and LOW BATT LED are not light.

FEATURES

The TM-25 FET input differential probe provides a safe means of measuring circuits with floating potentials up to 1000V (DC+peakAC) from ground and 1300V (DC+ peakAC) differential.

The TM-25 converts the high voltage differential input signal to a low voltage ground referenced signal for display on any Oscilloscope.

The output BNC of TM-25 is calibrated to drive a high impedance (1M Ω) load.

INSTRUCTION FOR USE

Connect the output BNC of TM-25 to the input BNC of the Oscilloscope by the accessory BNC cable.

Adjust the vertical offset of the Oscilloscope if necessary.

Set the select proper range of the TM-25 and the V / DIV of the Oscilloscope according to the scale conversion chart.

Scale conversion chart: The effective V / DIV is the attenuation factor of x 20, x 50, x 200 multiplied by the scale factor of the Oscilloscope. It will be twice when the 50 Ω load was used. For example, with the range set at x 200, and the scope set to 0.5V / DIV, the effective V / DIV equals 200 x 0.5 or 100V, with the 50 Ω load was used, it becomes 200V, the power consumption will increase too.

NOTE: If the voltage of the input signal exceeds the linear range of the setting range. The signal output of the TM-25 would not accurately, the wave form display will be cut off.

