ACCESSORIES

Spare Probe Tip.......................................................... 616002
Insulating Tip............................................................ 626000
Channel Identifier Clip................................................ 626003
IC Tip...................................................................... 626041
Probe Body................................................................. 626P2E
Adjusting Tool............................................................ 629014
Sprung Earth Tip.......................................................... 680017
Sprung Hook............................................................... 680912
BNC Cable Assembly.................................................... 870035
Ground Lead............................................................... 874010

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INTRODUCTION
The P-2E is a passive, high-impedance oscilloscope probe designed and calibrated for use with instruments having an input impedance of 1MΩ shunted by 20pF. However, it may be compensated for use with instruments having an input capacitance of 10 to 35pF. The probe incorporates a two position slide switch in the head which selects attenuation of x1, x10 position.

SAFETY INSTRUCTIONS
Review the following safety precautions to avoid injury and prevent damage to this product or any products connected to it.
- To avoid potential hazards, use this product only as specified.
- The common terminal is at ground potential. Do not connect the common terminal to elevated voltages.
- Do not operate in an explosive atmosphere.
- Keep product surfaces clean and dry.
- If your probe requires cleaning, disconnect it from the instrument and clean it with mild detergent and water. Make sure the probe is completely dry before reconnecting it to the instrument.

MAINTENANCE
Before dismantling any part of the probe, make sure it is disconnected from any voltage source. The probe body can be detached from the cable assembly by unplugging the push-fit BNC connector from the probe body. This permits replacement of the cable or body assembly should either part become damaged. The probe tip is also replaceable. To replace a broken tip, hold the black insulating part of the tip with pliers and unscrew it from the probe body. Replace with a new tip, taking care to align with the inner contact.

COMPENSATION ADJUSTMENT
In order to obtain the correct division ratio with each oscilloscope, the attenuation network needs to be adjusted. To compensate the probe to your oscilloscope, apply a 1kHz square wave to the probe tip, or connect to the cal socket on the oscilloscope to display a few cycles of the waveform and adjust the trimmer located in the probe body for a flat-topped square wave.

SPECIFICATIONS

Position X10
Attenuation Ratio 10:1
Bandwidth DC to 100MHz
Rise Time 2.8nS
Input Resistance 10MΩ when used with oscilloscopes with 1MΩ input.
Input Capacitance Approx. 16pF
Compensation Range 10 to 35pF
Working Voltage 600VDC including peak AC derating with frequency (see Figure 1).

Position X1
Attenuation Ratio 1:1
Bandwidth DC to 15MHz
Rise Time 27nS
Input Resistance 1MΩ (oscilloscope input)
Input Capacitance 46pF plus oscilloscope capacitance
Working Voltage 600VDC including peak AC derating with frequency.

Operating Temperature –50°F (–10°C) to 131°F (55°C)
Humidity 85% RH or less (at 95°F/35°C)
Safety Meets IEC1010-1 CAT I
Cable Length 46.8” (1.2m)

Figure 1 - Voltage Derating Curve