Active FET Probes
For 50 Ω and 1 MΩ Interfaces

P6201/P6202A
- True Signal Fidelity, DC up to 900 MHz
- Low Input Capacitance, <1.5 pF
- High Input Resistance 10 MΩ
- Variable DC Offset, Up to ±200 V
- Selectable 50 Ω, Termination for Use with 50 Ω or 1 MΩ Inputs

P6201
- DC to 900 MHz
- 1.5 pF Input C
- 1 MΩ Input R
- Unity Gain
- 1X/10X/100X
- DC Offset
- AC-DC Coupling

P6202A
- DC to 500 MHz
- 2 pF Input C
- 10 MΩ Input R
- 10X/Optional 100X
- DC Offset
- AC-DC Coupling

1101A
- Powers up to Two Probes
- For Probe Use with Oscilloscopes that Do Not Have Probe Power
- Compatible with the P6201, P6202A, and P6230
- Overload Protected

AC or DC coupling selection is available on the P6201 and P6202A FET Probes. When AC coupled, the DC voltage component is blocked allowing viewing of super-imposed signals.

The P6201 and P6202A are Tektronix line of Low Circuit Loading Active Signal Acquisition probes for 400 Series, 2400 Series, and 7000 Series Families of Oscilloscopes.

The P6201 and P6202A with Active FET devices in their inputs provide very high input impedances.

Both the P6201 and P6202A probes provide a wide linear dynamic input range for accessing most digital device families using today's logic voltage levels.

The P6201 provides unity gain (1X) and is the best general purpose FET probe within its voltage range. Plug-on attenuator heads provide wider dynamic ranges (10X and 100X), while maintaining the oscilloscope readout factor.

Wider dynamic input range for the P6202A is achieved by an optional 10X attenuator head which provides 100X attenuation.

Both the P6201 and P6202A probes provide a variable DC Offset function which is controlled via the offset controls on the probe's compensation box to bring signals (those within the offset control range) into the dynamic range of the probe.

Product(s) available through your local Tektronix representative (listed in the back of this catalog) or call 1-800-426-2200.
**Active FET Probes**

For 50 Ω and 1 MΩ Interfaces

**DESIGNED FOR:**
- Digital Design and Debug of Logic Families such as:
  - ECL
  - GaAs
  - MOS
  - CMOS
  - FastCMOS
  - BiCMOS
  - TTL
- Component Characterization/Measurement of High-speed Analog Circuitry Relative to:
  - Amplitude Levels
  - Aberrations
  - Propagation Delay and Timing
  - Bandwidths and Rise Times

### CHARACTERISTICS

<table>
<thead>
<tr>
<th>Probe Type</th>
<th>Nominal Cable Length in meters</th>
<th>Bandwidth at -3dB in MHz</th>
<th>Input C in pF</th>
<th>Input R in Ω</th>
<th>Linear Dynamic Range in Volts</th>
<th>DC Offset Range in Volts</th>
<th>Maximum Voltage in Volts (DC + pk AC)</th>
<th>Interface/Readout/Identify*</th>
<th>Recommended Instrument</th>
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<tbody>
<tr>
<td>P6201</td>
<td>1X</td>
<td>900</td>
<td>3</td>
<td>100 k</td>
<td>±0.6</td>
<td>±5.6</td>
<td>±100</td>
<td>BNC/Y/N</td>
<td>400/2400/7000 Series</td>
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<tr>
<td></td>
<td>10X</td>
<td>900</td>
<td>1.5</td>
<td>1 M</td>
<td>±8.0</td>
<td>±56</td>
<td>±200</td>
<td>BNC/Y/N</td>
<td>7000 Series*</td>
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<tr>
<td>P6202A</td>
<td>2X</td>
<td>500</td>
<td>2</td>
<td>10 M</td>
<td>±6.0</td>
<td>±55</td>
<td>±200</td>
<td>BNC/Y/N</td>
<td>400/2400/7000 Series*</td>
</tr>
<tr>
<td></td>
<td>100X*</td>
<td>900</td>
<td>2</td>
<td>10 M</td>
<td>±60.0</td>
<td>±200</td>
<td>±200</td>
<td>BNC/Y/N</td>
<td>7000 Series*</td>
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*2 Requires Probe Power connector on mainframe or 1101A Power Supply.

*3 Optional Accessory. Order 010-0384-00.

### ORDERING INFORMATION

<table>
<thead>
<tr>
<th>P6201</th>
<th>1X, 900 MHz FET Probe...........</th>
<th>$1,595</th>
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</thead>
<tbody>
<tr>
<td>Includes:</td>
<td>Retractable Probe Tip (013-0135-00); 10X Attenuator Head (010-0376-00); 100X Attenuator Head (010-0377-00); 3 Probe Tips (205-0200-00); Miniature Probe Tip Adapter (103-0164-00); 12 in. Ground Lead (175-0848-02); Ground Contact (131-1302-00); Alligator Clip (344-0046-00); Electrical Insulating Sleeve (166-0557-00); Ground Contact Insulator (342-0180-00); Probe Holder (352-0351-00); Carrying Case; Instruction Manual (070-1306-01).</td>
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<thead>
<tr>
<th>P6202A</th>
<th>10X, 900 MHz FET Probe.........</th>
<th>$1,115</th>
</tr>
</thead>
<tbody>
<tr>
<td>Includes:</td>
<td>Retractable Probe Tip (013-0097-01); 2 Alligator Clips (344-0046-00); Probe Holder (352-0351-00); 3 in. Ground Lead (175-0849-00); Probe Adjustment Tool (003-0675-01); 6 in. Ground Lead (175-1017-00); 2 Replaceable Probe Tips (206-0230-01); Electrical Insulating Sleeve (166-0404-01); Carrying Case; Instruction Manual (070-3642-00).</td>
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### ADDITIONAL ACCESSORIES

Also see pages 476-494 for complete selection information.

- **10X Attenuator** – (P6202A only) For a total of 100X attenuation. Order 010-0384-00..................$140

- **1101A Power Supply** – For P6201, P6202A Powers 2 Probes ..............................................$695

### INTERNATIONAL POWER PLUG OPTIONS

Opt. A2 – United Kingdom, 240 V 50 Hz ..................NC
Opt. A3 – Australian, 240 V 50 Hz ..................NC
Opt. A4 – North American, 240 V 60 Hz ..................NC
Opt. A5 – Switzerland, 220 V 50 Hz ..................NC

See General Customer Information Section for additional description.