

# Release Notes



## TDS3000 Series Release Notes

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# TDS3000 Series Release Notes

Please use the following information to replace or clarify information contained in the printed manuals.

## DC Gain Accuracy Specification

This change affects the DC Gain Accuracy specification as described on page A-4 of the *TDS3000 Series Digital Phosphor Oscilloscopes User Manual* and page 1–4 of the *TDS3000 Series Digital Phosphor Oscilloscopes Service Manual*.

Change the DC gain accuracy specification to:

DC gain accuracy	$\pm 2\%$ , derated at $0.14\%/^{\circ}\text{C}$ for temperatures below $+18^{\circ}\text{C}$ and above $+28^{\circ}\text{C}$ , in Sample or Average acquisition mode.
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## Radiated Immunity

This change affects the oscilloscope radiated immunity specification as described on page A–8 of the *TDS3000 Series Digital Phosphor Oscilloscope User Manual*.

The following specification no longer applies:

Miscellaneous	
Radiated Immunity	Per methods of EN50082-1 and EN61000-4-3, the increase in trace noise is not to exceed four major divisions peak-to-peak. Ambient RF fields may induce triggering when trigger threshold is offset less than two major divisions from ground reference.

### European Union EMC Certifications and Compliances

The following table text replaces the European Union EMC Certifications and Compliances text located on page A–11 of the *TDS3000 Series Digital Phosphor Oscilloscope User Manual*.

EMC certifications and compliances	
EMC Compliance: European Union	<p>Meets the intent of Directive 89/336/EEC for Electromagnetic Compatibility. Compliance was demonstrated to the following specifications as listed in the Official Journal of the European Communities:</p> <p>EN 61326 EMC requirements for Class A electrical equipment for measurement, control, and laboratory use <sup>1,2</sup></p> <p>IEC 61000-4-2 Electrostatic discharge immunity (Performance criterion B)</p> <p>IEC 61000-4-3 RF electromagnetic field immunity (Performance criterion B)</p> <p>IEC 61000-4-4 Electrical fast transient/burst immunity (Performance criterion B)</p> <p>IEC 61000-4-5 Power line surge immunity (Performance criterion B)</p> <p>IEC 61000-4-6 Conducted RF immunity (Performance criterion B)</p> <p>IEC 61000-4-11 Voltage dips and interruptions immunity (Performance criterion B)</p> <p>EN 61000-3-2 AC power line harmonic emissions</p>

<sup>1</sup> This equipment may exceed this standard's emission level requirements when connected to a device under test.

<sup>2</sup> To ensure compliance to the standards listed above, attach only high quality shielded cables to this instrument. High quality shielded cables typically are braid and foil types that have low impedance connections to shielded connectors at both ends. The following Tektronix part numbered cable or equivalent can be used: Centronics printer cable (P/N 012-1214-00).

### Probe P6139A Safety Certifications and Compliances

This change affects the safety certification for the P6139A high-impedance passive oscilloscope probe as described on page A-12 of the *TDS3000 Series Digital Phosphor Oscilloscope User Manual*.

The P6139A high-impedance passive probe is no longer certified under HD401 S1. The P6139A probe is now certified under EN 61010-1/A2:1995, EN 61010-2-031:1995, and UL3111-1.

Safety certifications and compliances	
EC Declaration of Conformity – Low Voltage  (TDS3000 Series, P3010 & P6139A)  (P3010 & P6139A)	Compliance was demonstrated to the following specification as listed in the Official Journal of the European Communities: Low Voltage Directive 73/23/EEC as amended by 93/68/EEC  EN 61010-1/A2:1995 Safety requirements for electrical equipment for measurement, control, and laboratory use  EN 61010-2-031:1995 Particular requirements for hand-held probe assemblies for electrical measurement and test equipment
Approvals  (TDS3000 Series, P3010 & P6139A)  (P3010 & P6139A)	UL3111-1 – Standard for electrical measuring and test equipment CAN/CSA C22.2 No. 1010.1 – Safety requirements for electrical equipment for measurement, control and laboratory use  EN 61010-2-031:1995 – Particular requirements for hand-held probe assemblies for electrical measurement and test equipment

### **The LCD Display**

The LCD display in this oscilloscope is manufactured using high-precision technology. However, there may be a few constantly-lit black, red, green, or blue pixels (dots) on the display. A few lit pixels is within the display specification (99.99% effective pixels). These lit pixels do not affect stored data or hard copy printing.