

Release Notes



TDS3000B Series Digital Phosphor Oscilloscopes

061-4245-02

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TDS3000B Series Release Notes

Please use the following information to replace or clarify information contained in the printed and online *TDS3000B Series Digital Phosphor Oscilloscopes User Manual*.

Vertical Offset Accuracy Specification

This change affects the Vertical Offset Accuracy specification, as described on Page A-5 of the *TDS3000B Series Digital Phosphor Oscilloscopes User Manual*. This change also affects the Vertical Offset Accuracy specification, as described on Page 1-4 of the *TDS3000B Series Digital Phosphor Oscilloscopes Service Manual* (Tektronix part number 071-0972-00 only).

Change the Vertical Offset Accuracy specification to:

Offset Accuracy, all ranges: $\pm[0.005 X | \text{offset} - \text{position} | + 0.1 \text{ div}]$

Note: You must convert both the constant offset and position terms to volts by multiplying by the volts/div setting.

Edge Trigger Sensitivity (Typical), External Trigger Specification

This change affects the Edge Trigger Sensitivity (Typical), External Trigger specification as described on page A-6 of the *TDS3000B Series Digital Phosphor Oscilloscopes User Manual*.

Change the Edge trigger sensitivity (typical), External trigger specification to:

200 mV from DC to 50 MHz, increasing to 750 mV at 300 MHz

European Union EMC Certifications and Compliances

The following table replaces the European Union EMC Certifications and Compliances table located on page A-12 and A-13 of the *TDS3000B 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 ^{1,2}</p> <p>IEC 61000-4-2 Electrostatic discharge immunity (Performance criterion B)</p> <p>IEC 61000-4-3 RF electromagnetic field immunity (Performance criterion A)³</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 A)⁴</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>

EMC certifications and compliances	
EMC Compliance: Australia/ New Zealand	Meets the intent of Australian EMC Framework as demonstrated to the following specification: AS/NZS 2064.1/2
EMC Compliance: Russia	This product was certified by the GOST ministry of Russia to be in compliance with all applicable EMC regulations.
FCC Compliance: U.S.A.	Emissions comply with FCC Code of Federal Regulations 47, Part 15, Subpart B, Class A Limits

- 1 Emissions that exceed the levels required by this standard may occur when this equipment is connected to a test object.
- 2 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.
- 3 The increase in trace noise while subjected to a test field (3 V/m over the frequency range 80 MHz to 1 GHz, with 80% amplitude modulation at 1 kHz) is not to exceed 6 major divisions peak-to-peak. Ambient conducted fields may induce triggering when the trigger threshold is offset less than 3 major divisions from ground reference.
- 4 The increase in trace noise while subjected to a test field (3 V/m over the frequency range 150 kHz to 80 MHz, with 80% amplitude modulation at 1 kHz) is not to exceed 2 major divisions peak-to-peak. Ambient conducted fields may induce triggering when the trigger threshold is offset less than 1 major divisions from ground reference.

TDS3EM Optional Accessory

Page C-4 of the *TDS3000B Series Digital Phosphor Oscilloscopes User Manual* lists the TDS3EM Ethernet communication module as an optional accessory. This module is an accessory only for the TDS3000 Series oscilloscope, and does not operate in the TDS3000B Series oscilloscopes.

Performance Verification

Add the following note to the bottom of page E-1 of the *TDS3000B Series Digital Phosphor Oscilloscopes User Manual*:

NOTE. *Successful completion of the performance verification procedure does not update the instrument Calibration Due date and time.*

Performance Verification Procedures

Replace the text and bullet items at the top of page E-5 of the *TDS3000B Series Digital Phosphor Oscilloscopes User Manual* with the following text:

The following three conditions must be met prior to doing these procedures:

1. The oscilloscope must have been operating continuously for twenty (20) minutes in an environment that meets the operating range specifications for temperature and humidity.
2. You must perform the Compensate Signal Path operation described on page 1-4. If the operating temperature changes by more than 10° C, you must perform the Compensate Signal Path operation again.
3. You must connect the oscilloscope and the test equipment to the same AC power circuit. Connect the oscilloscope and test instruments into a common power strip if you are unsure of the AC power circuit distribution. Connecting the oscilloscope and test instruments into separate AC power circuits can result in offset voltages between the equipment, which can invalidate the performance verification procedure.