



# CALIBRATION CERTIFICATE

(Electronic Test & Measurement Equipment – Digital Storage Oscilloscope)

## 1. Certificate Information:

Certificate No.: D50/CC/2026/JAN/0147  
Date of Calibration: 18-January-2026  
Next Due Calibration: 17-January-2027  
Calibration Type: Periodic Calibration & Performance Verification

## 2. Equipment Details:

Equipment Name: Digital Storage Oscilloscope (DSO)    ADC Resolution: 10-bit  
Bandwidth: 70 MHz – 300 MHz    Display: 10.1" Capacitive Touch Screen  
Sample Rate: 2 GSa/s    Vertical Scale: 1 mV/div to 5 V/div  
Memory Depth: Up to 20 Mpts    Vertical Divisions: 10  
ADC Resolution: 10-bit    Timebase Accuracy:  $\pm 2.5$  ppm

## 3. Environmental Conditions During Calibration:

Temperature: 23°C  $\pm$  2°C    Humidity: 230V AC  $\pm$  2%  
Power Supply: 48%  $\pm$  7%    Environment: Controlled laboratory

## 4. Calibration Standards Used:

Precision Function Generator    • Precision DC Voltage Calibrator  
Frequency Reference Standard    • High-frequency Coaxial Standards

## 5. Calibration Results:

### A. Vertical Gain Accuracy:

Table	Status	✓
1 mV/div	$\pm 1.8\%$	✓
100 mV/div	$\pm 1.1\%$	✓
1 V/div	$\pm 0.9\%$	✓
5 V/div	$\pm 1.3\%$	✓

### B. Timebase Accuracy:

Spec	Status
Spec:	$\pm 2.5$ ppm
Measured:	$\pm 1.7$ ppm
Status:	✓ Within spec

### C. Bandwidth Verification:

Frequencies	Status
70 MHz	Passed ✓
200 MHz	Passed ✓
300 MHz	Passed ✓

### E. Trigger Stability Test:

Response:	Stable
Measured:	1.006 GSa/s
Status:	✓ Acceptable

### F. Display & Touchscreen Test:

Functional	Functional
Dead Pixels:	None
Status:	✓ Passed

### G. Input Channel Verification:

CH1	✓	(1 MO $\pm 1\%$ )
CH2	✓	(1 MO $\pm 1\%$ )
CH3	✓	(1 MO $\pm 1\%$ )
CH4	✓	(1 MO $\pm 1\%$ )

6. Overall Assessment: DSO performs within operational tolerances for lab/industrial measurements.

## 7. Calibration Status:

Status: ✓ CALIBRATED & FIT FOR USE  
Validity: 12 Months

## 8. Authorized Signatories:

Calibration Engineer:  
Designation: Senior Test & Measurement Engineer  
Laboratory / Division: Electronics Metrology Laboratory

*A. J. Sharma*



Signature & Seal

9. Remarks: Perform under controlled conditions, recommended warm-up, annual calibration.