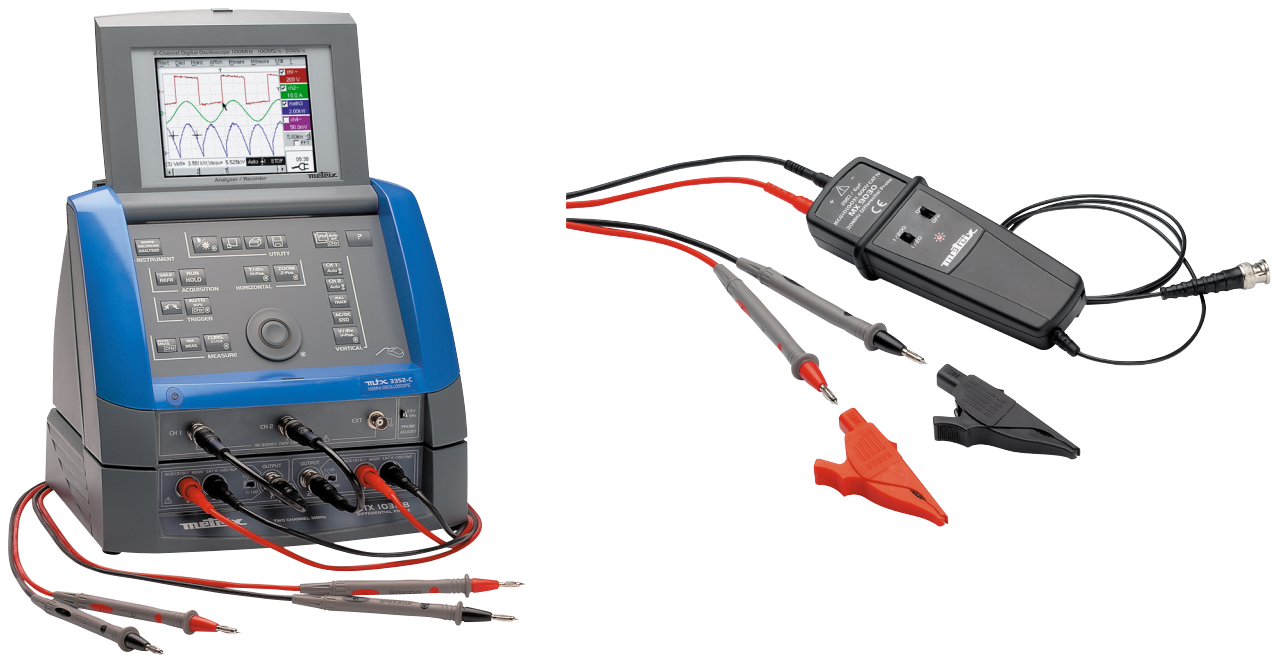


# 30 & 50 MHz differential probes for oscilloscopes



## The ideal analogue and digital oscilloscope accessory for displaying signals not referenced to the earth

- A family of 3 models for a wide range of applications
- A choice of 1 or 2 input channels
- Banana or coaxial/banana extra-long measurement leads
- A coaxial input model specially for use with oscilloscope probes
- Bandwidth 30 MHz or 50 MHz
- Mains or battery power supply (depending on model)
- 2 presentation models: Laboratory case or hand-held wrist strap version
- Range of differential input voltages from  $\pm 0.1$  to  $\pm 600$  V
- Standards compliance up to 600 V-CAT IV (depending on model)
- Can be used with all Class 1 type oscilloscopes
- Mechanical compatibility with the complete MTX family of oscilloscopes
- Compliance with LVD safety standards IEC 61010-1 (2001)
- Compliance with EMC standards EN 61326-1 (07/97) + A1 (10/98) + A2 (2001)

TECHNICAL SPECIFICATIONS	MTX1032-C	MTX1032-B	MX9030-Z
<b>PRESENTATION</b>			
Model version	Laboratory case version for independent use or associated mechanically with MTX Oscilloscopes		Hand-held version with wrist strap for independent use
Front-panel controls	Voltage ratio selector switch Battery disconnect switch (MX9030-Z only)		
Display	Power ON - LED display		
<b>INPUTS</b>			
Number of channels	2 differential channels		1 differential channel
Input types	Coaxial connection leads		Banana sockets
Bandwidth	50 Mhz	30 Mhz	30 MHz
Rising time	7 ns	11.7 ns	11.7 ns
Input impedance	1 M $\Omega$ // 13pF	1 M $\Omega$ // 6pF	2 M $\Omega$ // 6 pF
Maximum input voltage	600 V / CAT II	600 V / CAT III	600 V / CAT IV
Voltage ratios	1/10 & 1/100		1/20 & 1/200
Differential voltage ranges	1/10 = $\pm$ 0.1V to $\pm$ 40 V 1/100 = $\pm$ 1V to $\pm$ 400 V		1/20 = $\pm$ 0.1 V to $\pm$ 60 V 1/200 = $\pm$ 1 V to $\pm$ 600 V
Accuracy of attenuations (1kHz)	$\pm$ 3 %		
Maximum voltage in common mode	1/10 = $\pm$ 50 V 1/100 = $\pm$ 600 V		1/20 = $\pm$ 100 V 1/200 = $\pm$ 600 V
Common mode rejection	80 dB at 50 Hz, 50 dB at 1 MHz		
Measurement leads	2 x removable screened BNC/Banana leads 2.00 m (approx.)		Set(s) of removable banana leads 1.10 m (approx.)
<b>COAXIAL OUTPUTS</b>			
Maximum level	$\pm$ 4 V with 1 M $\Omega$ load		$\pm$ 3 V with 1 M $\Omega$ load
Output impedance	50 $\Omega$		
Noise level	10 mVdc		
Residual offset voltage	< 10 mV		
Coaxial output cables	Removable cables (short) 20 cm approx.		Fixed cables (long) 1.10m approx.
<b>OPERATING MODES</b>			
Oscilloscope type	Class 1 oscilloscope only, with safety earth connection		
For use with coaxial/banana cables	YES	NO	NO
For use with set of banana cables	NO	YES	YES clipped to rear of casing
For use with Oscilloscope Probes	YES	NO	NO
<b>GENERAL SPECIFICATIONS</b>			
Mains power supply	230 VAC $\pm$ 10 % 50/60 Hz 300 V - CAT II		N/A
Battery power supply	N/A		1.9 V battery (6LF22, 6LR61)
Consumption / Autonomy	Consumption < 5 W		Autonomy 18 H approx.
Operating temperature	from 0 to 50 °C		
Relative humidity	< 80 % up to 31 °C		
Protection rating	IP 40		
LVD Safety	IEC 61010-1 (2001), Environment: altitude < 2000 m - pollution level 2, for interior use		
EMC	NF EN 61326-1 (07/97) + A1 (10/98) + A2 (2001)		
Dimensions	270 x 250 x 63 mm		163 x 62 x 40 mm
Weight	1,2 kg		195 g (including battery)
Warranty	2 years		

#### Standard accessories:

**MX9030-Z** = 1 Single-channel probe with BNC output socket, including 1 standard 9 V battery, 1 set of PVC Banana leads 1.10m (P01.2952.37-Z), 1 set of industrial standard crocodile clamps (P01101848), 1 Fitting Accessories Kit for fitting to MTX Oscilloscope (interior of Probe case), 1 user manual.

**MTX1032-C** = 1 x 2-channel probe in MTX Pack, 2 short BNC leads 20 cm, 1 set of 2 shielded BNC-banana leads 2 m (AG0484), 2 crocodile clamps for Probe (HX0008), 1 European standard mains lead, ), 1 fitting accessories kit for fitting to MTX oscilloscope (interior of probe case), 1 user manual.

**MTX1032-B** = 1 x 2-channel probe in MTX Pack, 2 short BNC leads 20cm, 2 sets of PVC banana leads 1.10 m (P01.2952.37-Z), 1 European standard mains lead, 1 user manual.

#### Optional accessories (for MTX1032-C):

**HX0004** = Safety voltage probe, ratio 1/10, 250 MHz, 1000 V-CAT II / 600 V-CAT III

**HX0007** = Hooked wire-grip for probe HX0003 or HX0004

**P01.1018.48** = Set of 2 industrial standard crocodile clips for BNC/banana lead connections



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