

Differential probes

MX 9030, MTX 1032-B & MTX 1032-C

■ The essential accessory for oscilloscopes with non-isolated channels



- Enhance safety and extend the scope of application of a Class 1 oscilloscope
- Simultaneously measure 'floating' signals without a common reference
- Minimise errors with weak signals or in the presence of high common-mode interference
- Avoid the risk of short circuits

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- 1 or 2 channels
 - 30 MHz or 50 MHz bandwidth
 - Mains or battery power supply (depending on model)
 - Available in a laboratory case or as a handheld probe with wrist strap
 - Compliant up to 600 V CAT IV (depending on model)

TECHNICAL SPECIFICATIONS

| | MX 9030 | MTX 1032-B | MTX 1032-C |
|---|--|--|-------------------------------|
| Input specifications(s) | | | |
| Number of channels | 1 differential channel | 2 differential channels | |
| Input Connectors | [2 insulated 4mm female sockets (1R/1N)] | 2 x [2 insulated 4mm female sockets (1R/1N)] | 2 x [2 female BNC connectors] |
| Bandwidth | 30 MHz | 30 MHz | 50 MHz |
| Rise time | 11,7 ns | | 7 ns |
| Input impedance | 1 M Ω // 13 pF | 1 M Ω // 6 pF | 2 M Ω // 6 pF |
| Attenuation / Attenuation accuracy at 1 kHz | 1/20 and 1/200 / \pm 3% | 1/10 and 1/100 / \pm 3% | |
| Voltage range differential input | 1/20: \pm 0.1 V to \pm 60 V 1/200: \pm 1 V to \pm 600 V | 1/10: \pm 0.1 V to \pm 40 V 1/100: \pm 1 V to \pm 400 V | |
| Common-mode rejection | 80 dB @ 50 Hz, 50 dB @ 1 MHz | | |
| Output characteristics | | | |
| Output Connectors | Coaxial cable terminated with a male BNC connector | 2 x [1 female BNC connector] | 2 x [1 female BNC connector] |
| Maximum level | \pm 3 V loaded by 1 M Ω | \pm 4 V loaded by 1 M Ω | |
| Output impedance | 50 Ω | | |
| Noise level | 10 mV ^{peak-to-peak} | | |
| Residual offset | \leq 10 mV | | |
| General specifications | | | |
| Compatibility and usage | Class 1 oscilloscopes only, connected to a protective earth. | | |
| Power supply / Battery life | 1 x 9V 6LF22 / 18 hrs approx. | Mains supply: 230 V, 50/60 Hz. Power consumption: < 5 W | |
| Safety | 600 V CAT IV | 600 V CAT III | 600 V CAT II |
| Protection rating | IP40 | | |
| Operating temperature | 0 $^{\circ}$ C to +50 $^{\circ}$ C | | |
| Relative humidity | \leq 80% up to 31 $^{\circ}$ C | | |
| Dimensions | 163 x 62 x 40 mm | 270 x 250 x 63 mm | |
| Weight | 0.195 kg (with battery) | 1.2 kg | |
| Warranty | 2 years | | |

DELIVERY CONTENTS

MX9030-Z: 1 single-channel probe with BNC cable output, including 1 standard 9 V battery, 1 set of 1.50 m PVC banana plugs, 1 set of 2 alligator clips, 1 set of CAT III/CAT IV test leads, 1 operating manual in 5 languages, packaged in a blister pack.

MTX1032-C: 1 two-channel probe in an 'MTX Pack' case with 2 short 20 cm BNC cables, 1 set of 2 shielded 2 m BNC-to-banana cables, 2 alligator clips for the probe, 1 European mains lead, 1 operating manual in 5 languages, in a cardboard box.

MTX1032-B: 1 two-channel probe in an 'MTX Pack' case with 2 short 20 cm BNC cables, 2 sets of 1.50 m PVC banana plugs, 1 European mains lead, 1 operating manual in 5 languages, in a cardboard box.



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