PRESS Info

Type of product: **2-channel benchtop oscilloscopes**

Product names: **DOX 2025B, DOX 2070B, DOX 2100B**

The new, simple-to-use METRIX® DOX 2000B benchtop oscilloscopes offer numerous acquisition and analysis functions, as well as multiple communication interfaces.

Simples and effective

Designed for use in the lab, the DOX 2000B models nevertheless remain compact, transportable and simple to use.

Their 16/9-format panoramic colour TFT screen offers a resolution of 800x480 pixels.

Users can customize the display: choice between normal or persistent display, YT or XY format, adjustment of the colours, graticule, brightness, contrast, etc. The menus of the HMI are available in 5 languages(English, French, Spanish, Italian, German), depending on your choice. The traditional navigation commands and settings are accessible on the front panel (rotary buttons and backlit keys).

There are also BNC connections for the 2 measurement channels, as well as a dedicated channel for the external trigger and a signal for probe calibration. To optimize data storage capacity, the USB HOST communication port allows you to record onto a USB key. It also enables you to connect an isolated probe for current measurement, such as the MH60 probe from Chauvin Arnoux®.
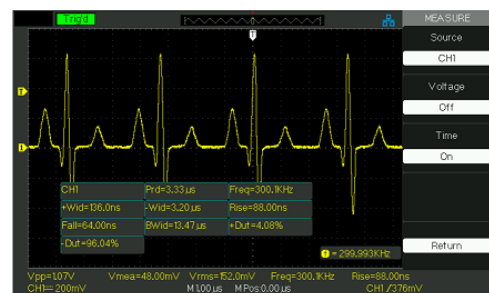
The display allows you to view 32 measurements at the same time as the measurement dashboard.

Analysis is facilitated by the 32 standard automatic measurements selectable, which can be refined using the measurement cursors which may or may not be tied to the trace. The extensive range of advanced time parameters makes it possible to compare the signals on two separate channels and zoom on them if necessary. For more thorough analysis, the DOX 2000B models offer 5 mathematical functions for real-time analysis on 2 different displays: addition, subtraction, multiplication, division and FFT. With all these functions, the DOX 2000B models are ideal for the needs of R&D teams and laboratories, thus meeting the requirements of manufacturers and teachers in technical education for:

- development and adaptation of prototypes
- production inspections and tests
- electronics troubleshooting in the workshop, etc.

High performance

LThe DOX 2000B Series oscilloscopes are equipped with 2 MB of extended memory backed by multiple acquisition and analysis modes with advanced trigger functions. Thanks to bandwidths ranging from 25 MHz to 100 MHz on 2 channels, a sampling frequency of 2 GS/s and a waveform memory with a maximum capacity of 1 Mpts/ channel (2 Mpts in interlaced mode), the DOX 2000B models offer **the best quality/price trade-off on the market for oscilloscopes with a protective earth**.

DOX 2000B 2-channel benchtop digital oscilloscopes

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❯ Practical !

The measurement result is displayed instantaneously by means of the integrated Pass/Fail mask, which makes it possible to identify any problems on a signal quickly and easily. This Pass/Fail function allows you to monitor the evolution of the signals, observe whether the input signal is below or close to a template which may be predefined or not. The DOX 2000B models include selectable digital filters to prevent the noise present on a high and low-frequency signal from disturbing the trigger. For slow recordings, the ROLL and RECORDER modes can be used for continuous real-time monitoring.

❯ Communication & software

On the rear panel, the USB and RJ45 (Ethernet) ports allow communication with a PC via the EASYSCOPE software for control of the oscilloscope, testing and recovery of the trace and screenshot files.

❯ Technical specifications

➢ **3 models**
- DOX 2025B, bande passante 25 MHz
- DOX 2070B, bande passante 70 MHz
- DOX 2100B, bande passante 100 MHz

➢ **Sampling rates**
- DOX 2025B: One-shot = 250 MS/s (2 channels), 500 MS/s (one channel) / Repetitive = 10 GS/s
- DOX 2070B and DOX 2100B: One-shot = 500 MS/s (2 channels), 1 GS/s (one channel) / Repetitive = 50 GS/s Vertical sensitivity: 12 calibres from 2 mV – 10 V/div

➢Vertical sensitivity: 12 calibres from 2 mV – 10 V/div

➢Vertical resolution: 8 bits

➢Triggers: Edge, pulse width (20 ns-10 s), video (Pal, Secam, NTSC), slope, alternate

➢ Max. memory depth = 32 kpoints (DOX 2025B), 2 Mpoints (DOX 2070B / DOX 2100B)

➢Transient capture: minimum duration of events = 10 ns

➢Display modes: points or vectors – Persistence (1 s, 2 s, 5 s, 10 s, 20 s or infinite) or Averaging (factor from 4 to 256)

➢FFT analyser: FFT calculated on 1,024 points – Simultaneous display of trace + FFT – 4 window types (rectangle, hamming, hanning, blackman)

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