OD-620B - PROFESSIONAL RANGE

PROMAX OD-620B *is a digital storage oscilloscope featuring up to 200 MHz of bandwidth and up to 1 GS/s real time sample rate. This professional range digital oscilloscope features an unprecedented large 8" high resolution display.*

They include advanced functions such as several trigger modes, 20 automatic measurements, waveform storage and USB connectivity.

Their ultra-thin body (just 9 cm depth), compact design and light weight makes these **PROMAX** *digital oscilloscopes ideal not only for desktop applications such as circuit design or production lines but also for those cases that demand to carry the instrument from one location to another: automobile maintenance and testing, education and training, etc.*

✓ **Bandwidth: 200 MHz**

✓ **Sample rate: 1 GS/s**

✓ **Up to 40 M record length**

✓ **Ultra thin body (9 cm depth)**

✓ **8" high resolution color LCD-TFT display, 800x600 pixels**

✓ **28 automatic measurements. Math functions**

✓ **Communication interfaces: USB 2.0, USB for file storage, LAN, VGA**

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SPECIFICATIONS	OD-620B DIGITAL STORAGE OSCILLOSCOPE - PROFESSIONAL RANGE
Bandwidth	200 MHz
Sample rate	1 GS/s
Horizontal scale (s/div)	From 2 ns/div to 1000 s/div, 1-2-5 steps
Rise Time (at input, typical)	≤ 3.5 ns
Trigger type	Edge, Pulse, Video, Slope, Runt, Window, Timeout, Nth Edge, Logic, I2C, SPI, RS-232, CAN
Channel	2+1 (external)
Display	8" color LCD, TFT display, 800x600 pixels
Input impedance	1 MΩ ±2 %, in parallel with 15 pF ±5 pF
Channel isolation	100:1 (50 Hz), 40:1 (10 MHz)
Max input voltage	1 MΩ ≤ 300 V_{RMS}, 50 Ω ≤ 5 V_{RMS}
DC gain accuracy	±3 %
Record length	40 M
DC accuracy (average)	Average ≥16: ±(3% reading + 0.05 div) for ΔV
Probe attenuation factor	From 0.001x to 1000x, 1-2-5 steps
Low Frequency response	≥ 10 Hz (at input, AC coupling, -3 dB)
Sampling rate / Relay time accuracy	±1 ppm
Interpolation	sin(x) / x, x
Interval (ΔT) accuracy (DC ~ 100 MHz)	Single: ±(1 interval time + 1 ppm x reading + 0.6 ns)
	Average > 16: ±(1 interval time + 1 ppm x reading + 0.4 ns)
Input coupling	DC, AC and GND
Vertical resolution (A/D)	8 bits resolution (2 channels simultaneously)
Vertical sensitivity	1 mV/div - 10 V/div
Trigger mode	Auto, Normal, Single
Line / Field frequency (video)	NTSC, PAL and SECAM
Cursor measurement	ΔV, ΔT, ΔV and ΔT between cursors, auto-cursors
Automatic measurements	V_{PP}, V_{AVG}, V_{RMS}, V_{MAX}, $V_{MÍN}$, V_{TOP}, V_{BASE}, V_{AMP}, Frequency, Period, Oveshoot, Preshoot, Rise time, Fall time, Delay A→B ⌐ ,Delay A→B ⌐ , +Width, -Width, +Duty, -Duty, Fase, RMS_{CYCLE}, RMS_{CURSOR}, +Pulse count, -Pulse count, Rise Edge Count, Fall Edges count, Duty Cycle
Waveform math	+, -, x, ÷, invert, FFT
Waveform storage	100 waveforms
Lissajous figure	Full bandwidth. Phase difference: ±3 degrees
Communication interface	USB host. USB device. Trigger (Pass/Fail), LAN, VGA
Power supply	From 100 to 240 V, 50/60 Hz, CAT II
Power consumption	< 15 W
Fuse	2 A, T class, 250 V
Dimensions	340 (W.) x 170 (H.) x 90 (D.) mm
Weight (without package)	2.60 kg
Accessories	Passive probe (x2), Power cord, USB cable, Quick referece guide, Battery (optional)

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