

OL-612 - PROFESSIONAL RANGE



PROMAX OL-612 is an advanced **multi functional** oscilloscope plus a **16 channel logic analyser**.

The digital storage oscilloscope features up to 100 MHz of bandwidth and up to 2 GS/s real time sample rate. The large 8" TFT display ensures quick, comfortable reading and operation.

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

The bundled 16 channel logic analyser offers up to 200 MHz bandwidth and a sampling rate up to 1 GS/s. When connected to a PC, the **free software application** works with the equipment and allows to download, save, recall and analyse the data.

- ✓ Bundled 16 channel logic analyser (100 MHz bandwidth, 1 GS/s real time sampling rate)
- ✓ Bandwidth: 100 MHz. Sample rate: 2 GS/s
- ✓ Up to 2 M record length
- ✓ 2+1 channels
- ✓ 8" color LCD-TFT display
- ✓ 19 automatic measurements. Math functions
- ✓ Communication interfaces: USB 1.1, USB for file storage, RS-232 (optional)



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SPECIFICATIONS	OL-612 OSCILLOSCOPE + LOGIC ANALYSER - PROFESSIONAL RANGE
Bandwidth	100 MHz
Sample rate	2 GS/s
Horizontal scale (s/div)	From 2 ns/div to 100 s/div, 1-2-5 steps
Rise Time (at input, typical)	≤ 3,5 ns
Trigger type	Edge, Pulse, Video, Slope, Alternate
Channel	2+1 (external)
Display	8" LCD, TFT display, 640x480 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	400 V PK-PK (DC+AC, PK-PK)
DC gain accuracy	±3 %
Record length	Max 2 M
DC accuracy (average)	Average ≥16: ±(3% reading + 0.05 div) for ΔV
Probe attenuation factor	1x, 10x, 100x, 1000x
Sampling rate / Relay time accuracy	±100 ppm
Interpolation	sin(x) / x
Interval (ΔT) accuracy	Single: ±(1 interval time + 100 ppm x reading + 0.6 ns) Average > 16: ±(1 interval time + 100 ppm x reading + 0.4 ns)
Input coupling	DC, AC and GND
Vertical resolution (A/D)	8 bits resolution (2 channels simultaneously)
Vertical sensitivity	2 mV/div - 10 V/div
Trigger mode	Auto, Normal, Single
Line / Field frequency (video)	NTSC, PAL and SECAM
Cursor measurement	ΔV and ΔT between cursors
Automatic measurements	V _{PP} , V _{AVG} , V _{RMS} , V _{MAX} , V _{MIN} , V _{TOP} , V _{BASE} , V _{AMP} , Freq, Period, Overshoot, Preshoot, Rise time, Fall time, Delay A→B, Delay A→B, +Width, -Width, +Duty, -Duty
Waveform math	+, -, x, ÷, FFT
Waveform storage	4 waveforms
Lissajous figure	(100 MHz) Phase difference: ±3 degrees
Communication interface	USB 1.1, USB for file storage, RS-232 (optional)
Power supply	From 100 to 240 V, 50/60 Hz, CAT II
Fuse	1 A, T class, 250 V
Dimensions	370 (W.) x 180 (H.) x 120 (D.) mm
Weight (without package)	2.20 kg
Accessories	Passive probe (x2), Power cord, USB cable, Quick reference guide, CD-ROM

DESIGN AND SPECIFICATIONS ARE SUBJECT TO CHANGES WITHOUT PRIOR NOTICE 11-24

SPECIFICATIONS	16 CHANNEL LOGIC ANALYSER		
Sample rate (real time)	From 20 S/s to 1 GS/s	Trigger position setting	Pre-trigger, Mid-trigger and Re-Trigger
Bandwidth	200 MHz	Threshold voltage	± 6 V
Channel	16	Input signal range	± 30 V
Record length	Max 4M per channel	Data search	Available
Input impedance	660 kΩ ± 5%, in parallel with 15 ±5 pF	Data system	Binary, Decimal, Hex
Trigger mode	Edge, Bus, State, Data Alignment, Data Width, Distributed Queue	Digital filter	0, 1, 2 optional
		USB flash disk storage	Available