

## DOUBLE-TRACE OSCILLOSCOPES

**PROMAX OD-512** and **OD-514B** double-trace oscilloscopes have been manufactured under a strict quality control. They have got advanced functions and measurement possibilities such as cursors readout, on screen alphanumerical indication, trace intensity modulation, possibility to display the TV signals, etc.

OD-512



SPECIFICATIONS	OD-512	OD-514B
<b>Vertical amplifiers</b>		
Bandwidth	DC to 20 MHz	DC to 40 MHz, 1~2/ div. DC to 10 MHz
Sensitivity	5 mV to 5 V/div., 10 steps, sec. 1-2-5	1 mV to 5 V/div., in 12 steps sequence 1-2-5 1 mV to 5 mV / div. DC 15 MHz
Sweep magnification	x 5 CH1 and CH2	—
Accuracy	≤3% (x 5 MAG ≤ 5%)	5 mV to 5 V/div.: ≤ 3%, 1 mV to 2 mV/div.: ≤ 5% (10°C to 35°C)
Variable Attenuator	Continuously variable (minimum 2.5:1)	
Input voltage	Max. 300 V (DC+peak AC)	Max. 400 V (DC+peak AC)
Input impedance	1 MΩ // 25 pF aprox.	
Operating modes	CH1, CH2, DUAL (ALT, CHOP) and ADD	
Coupling	AC-GND-DC	
Dinamic Range	>5 div to 20 MHz	>4 div to 40 MHz
<b>X-Y Operation</b>		
X axis	Same as CH1 (DC~500 kHz)	Same as CH1 (DC-1 MHz)
Y axis	Same as CH2 (DC~500 kHz)	Same as CH2 (DC-1 MHz)
<b>Horizontal Deflection</b>		
A Time base		
Sweep rate	0.2 μs to 0.5 s/div in 20 Steps seq.1-2-5	0.1 μs/div to 0.5 s/div in 21 steps sequence (1-2-5)
Hold-off time	—	Countinuously variable ≥ double of the duration of the sweeping in the scales
Operating modes	A, X-Y	
Accuracy	NORM: ± 3%, x10 MAG ± 5%	NORM: ±3%, x 10 MAG: ± 5% (0.1 μs to 50 ms/div)
Magnification	x 10	
<b>Triggering</b>		
Source	CH1, CH2, LINE, EXT	
Modes	AUTO, NORM, TV-V, TV-H	AUTO, NORM and SINGLE
Coupling	AC, TV/V, TV/H	AC, HF-REJ, TV, DC
Slope	+ / -	
Sensivity		
Internal	0.5 div (20 Hz to 2 MHz), 1.5 div. (2 to 20 MHz)	0.5 div (DC to 10 MHz), 1.5 div. (10 to 35 MHz)
External	0.2 V (20 Hz to 2 MHz), 0.8 V (2 to 20 MHz)	0.1 V (DC to 5 MHz), 0.2 V (5 to 35 MHz)
<b>Z Modulation</b>		
Input voltage	30 V (DC + peak AC)	50 V (DC + AC peak, frequency AC ≤1 kHz)
Sensivity	5 Vpp	3 Vpp
<b>Power supply</b>		
Mains voltage	115 (97 to 132), 230 (195 to 250) V AC / 30 W	100 / 120 / 220 / 230 V AC, 50-60 Hz with selector / 60 W
<b>Mechanical features</b>		
Dimensions	310 W. x 150 H. x 455 D.	
Weight	8 kg	8.2 kg
<b>Included accessories</b>	Mains cable CA-06, 2 Probes SL-10, User's Manual	Mains cable CA-06, 2 Probes S-10P, User's Manual