

# Modular Universal Oscillographs (continued)







Next









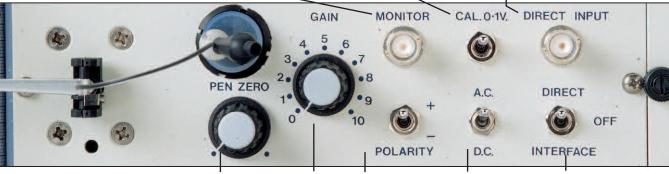




BNC connector for remote monitoring on oscilloscope or computer, ±3 V maximum

Momentary switch provides 0.1 V calibration signal

BNC connector for signal input from auxiliary units such as Harvard Apparatus Research Grade Transducers



Electronically positions pen

Adjusts pen amplitude Inverts write-out

Selector switch permits recording of AC or DC signals Three position switch to select either direct input, interface unit or off

# **Oscillographic Recording Applications**

#### **Curvilinear Recording**

- Higher frequency response (70 Hz); greater trace width
- Waveforms are commensurate with a curved trace
- . More suitable for teaching and demonstrations

#### **Rectilinear Recording**

- Produces straight-line, pen tip travel that is easy to calibrate and measure
- Reduced frequency response; (40 Hz) and pen travel
- More suitable for analytical-type recordings, such as ECG

#### **Specifications**

Pen Amplifier Module:	
Maximum Gain	30 mV/cm
Input Impedance	$>$ 100 K $\Omega$ (Single Ended)
Frequency Response:	
Curvilinear	DC to 70 Hz ±3 dB
Rectilinear	DC to 40 Hz ±3 dB
Trace Width:	
Curvilinear	5 cm (2 in)
Rectilinear	4 cm (1.6 in)
Dimensions, H x W x D:	
2-Channel Recorders	195 x 508 x 205 mm (7-1/3 x 20 x 8 in)
4-Channel Recorders	195 x 508 x 305 mm (7-1/3 x 20 x 12 in)
Weight:	
2-Channel Recorders	10 kg (22 lb)
4-Channel Recorders	14.5 kg (32 lb)

### **Modular Universal Oscillograph**

	Power	
Recording Method	115 VAC, 60 Hz	230 VAC,50 Hz
Curvilinear		
2-Channel	PY2 50-8630	PY2 50-8622
4-Channel	PY2 50-9315	PY2 50-9307
Rectilinear		
2-Channel	PY2 50-8655	PY2 50-8648
4-Channel	PY2 50-9331	PY2 50-9323

PY2 50-8978 Pen Amplifier Module for Curvilinear Oscillograph PY2 50-8986 Pen Amplifier Module for Rectilinear Oscillograph PY2 50-9091 Replacement Pen for Curvilinear Oscillograph PY2 50-9083 Replacement Pen for Rectilinear Oscillograph PY2 50-9018 Black Ink Cartridge PY2 50-9174 Blue Ink Cartridge PY2 50-9182 Red Ink Cartridge PY2 50-9180 Green Ink Cartridge PY2 50-9090 Paper, 91 m (300 ft) for 2-Channel, Curvilinear Oscillograph PY2 50-9026 Paper, 91 m (300 ft) for 2-Channel, Rectilinear Oscillograph PY2 50-9372 Paper, 91 m (300 ft) for 4-Channel, Rectilinear Oscillograph PY2 50-9364 Paper, 91 m (300 ft) for 4-Channel, Rectilinear Oscillograph	Order#	Product	
PY2 50-9091 Replacement Pen for Curvilinear Oscillograph PY2 50-9083 Replacement Pen for Rectilinear Oscillograph PY2 50-9018 Black Ink Cartridge PY2 50-9174 Blue Ink Cartridge PY2 50-9182 Red Ink Cartridge PY2 50-9190 Green Ink Cartridge PY2 50-9034 Paper, 91 m (300 ft) for 2-Channel, Curvilinear Oscillograph PY2 50-9026 Paper, 91 m (300 ft) for 2-Channel, Rectilinear Oscillograph PY2 50-9372 Paper, 91 m (300 ft) for 4-Channel, Curvilinear Oscillograph	PY2 50-8978	Pen Amplifier Module for Curvilinear Oscillograph	
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