

Interface Option PM 8959/001 or Option /403
Contains both IEEE-488 and RS-232C capability

Programming Functions

Autoset: Automatically selects proper channel(s), trigger and time base mode, and scales the display for proper amplitude and timing. Autoset operates in the analog, as well as the digital storage modes.

Remote Control: The IEEE-488 and RS-232C interface provides full control over all switchable functions of either instrument. This includes acquisition and measurement functions. Waveform data can be transferred from scope to controller and back, and measurement results and instrument settings can be read by the controller as well.

IEEE-488

Bus Driver: E2 (three state)

Function Repertoire: SH1, AH1, T5, L3, SR1, RL2, PP0, DT1, DC1, C0

RS-232C

Handshake: Software XON/XOFF, hardware DSR/DTR and CTS/DTR

Baud Rate: Transmit and receive 75 to 4800 bits/sec

Stop Bits: 1 or 2

Parity: Odd, even or none

Character Length: 7 or 8 bits

Interface Option PM 8961/001 or Opt /503

RS-232C (Data Dump only)

Handshake: Software XON/XOFF, hardware DSR/DTR and CTS/DTR

Baud Rate: Transmit 75 to 4800 bits/sec

Stop Bits: 1 or 2

Parity: Odd, even or none

Character Length: 7 or 8 bits

Digital Plot (Option /403 or /503)

Language: HP GL or Philips GL dependent on plotter type selected

Plotter Select: Philips PM 8153/1,* PM 8153/6,* PM 8154,* PM 8155, HP 7450, HP 7475A

Pen Select: Pen 1 for Ch A; Pen 2 for Ch B; Pen 3 for Register Ch A; Pen 4 for Register Ch B; Pen 5 for graticule and alphanumerics

Plot Area: Softkey selectable

Dot Matrix Printer Screen Dump: Compatible with Epson FX80 and HP Thinkjet® graphics protocol or compatibles

Drawing Area: 10 cm x 10 cm

**Not available in North America*

General Specifications

Display

Screen: CRT with 8 x 10 cm viewing area; P31 phosphor, 16 kV acceleration voltage. Softkey display area on CRT for selection of menu choices.

Graticule: Parallax-free with continuously variable illumination

LCD Display: Separate constantly backlit LCD for display of status information, settings, etc

Power Supply

Line Voltage Range: 100V to 240V ac $\pm 10\%$

Line Frequencies: 50 Hz to 400 Hz $\pm 10\%$

Power Consumption: 70W

Environmental Data

Temperature

Rated Range of Use: $+10^{\circ}\text{C}$ to $+40^{\circ}\text{C}$

Operating Range: 0°C to $+50^{\circ}\text{C}$

Storage: -40°C to $+75^{\circ}\text{C}$

Altitude

Operating: 4500m (15,000 ft)

Transport: 12,000m (40,000 ft)

EMI: Meets requirements of MIL-STD-461 Class B, VDE 6871 and VDE 0875 Grenzwertklasse B

Safety: Meets requirements of IEC 348 Class 1, VDE 0411, UL 1244. CSA Certified (CSA556 B)

Shock: Operating and non-operating: Max acceleration 30g, $\frac{1}{2}$ sine, 11 ms duration, 6 shocks on each axis, 3 shocks on each face giving a total of 18 shocks

Bench Handling: MIL-STD-810 method 516, procedure V

Mechanical Data

Width: 387 mm (15.2 in) incl handle, 350 mm (13.8 in) excl handle

Length: 531 mm (20.9 in) incl handle and knobs; 518 mm (20.4 in) incl handle, excl knobs; 456 mm (17.9 in) excl handle, incl knobs; 434 mm (17.1 in) excl handle and knobs

Height: 146.5 mm (5.8 in) incl feet, 134.5 mm (5.3 in) excl feet

Weight: Approx 9.5 kg (20.9 lb) excl accessories

Included with Instrument: 2 x 10:1 probes (with scale factor readout), blue CRT contrast filter, operator manual, power cord

Ordering Information

Models

PM 3335 20 MS/s, 60 MHz Digital

Storage Oscilloscope

PM 3337 Same, w/19 in Rackmount

Optional Configurations

When ordering, select the basic "PM" model from above, and add the configuration option number listed below as a suffix.

/00n Basic Model

/40n GPIB IEEE-488/RS-232C Interface

Installed (PM 8959/001)

/50n RS-232C Dump Only Interface

Installed (PM 8961/001)

Example, Ordering Configuration

To order the 60 MHz, 20 MS/s Digital Storage Oscilloscope in rackmountable configuration, with GPIB IEEE-488/RS 232 interface installed, and 115 V AC power card.

Basic Oscilloscope	Model
Configuration Option Suffix	PM 3335
Complete Model Number	/403
	PM 3335/403

Accessories (Also see end of Section 3)

Passive Probes

PM 9011/001 1:1 or 10:1 probe, cable length 1.5m (5 ft)

PM 9001/001 1:1 probe, cable length 1.5 m (5 ft)

PM 9001/201 1:1 probe, cable length 2.5 m (8 ft)

PM 9010/091 10:1 probe with readout, cable length 1.5 m (5 ft)

PM 9010/291 10:1 probe with readout, cable length 2.5 m (5 ft)

PM 9100/091 20 M Ω 100:1 probe with readout, cable length 1.5 m (5ft)

Active Probes

PM 8940/09Q High Voltage Isolation

Amplifier w/Readout

PM 8943A 650 MHz FET Probe

PM 9355/09Q AC Current Probe w/Readout

Other Accessories

PM 8902/001 12V dc-ac Power Converter

PM 8903/003 Battery Pack/Charger Kit

PM 8917/003 Video Sync Separator and Line Selector

PM 8959/001 Retrofittable IEEE-488 (GPIB) and RS-232C Interface

PM 8961/001 RS-232C Data Dump Interface

PM 8988 Protective Front Panel Cover

PM 8989/001 Ruggedized Case

PM 8992/65 Accessory Pouch

PM 9051 BNC to 4 mm Banana Adapter

PM 9381 Oscilloscope Camera

PM 2122/01 50 Ω Coaxial Switch

PM 2255/001 Instrument Drivers Series

PM 2240/002 TestTeam Software

PM 2250/001 TestTeam Plus software

PM 2270/001 DSO COM Software

PM 2260/002 Oscilloscope Signal Processing Software