



Cercis, Inc.

Model 610 Optical Power Meter with Data Logging

Putting Light to the Test

Cercis 610 Series Data Logging Optical Power Meters are full-feature hand-held instruments which can store and recall up to 1000 separate data records—containing unique user-assigned label, power reading, reference value, calibration wavelength, operating mode, date and time—in the instrument's non-volatile memory. The RS232 port on the side of the instrument allows stored data to be printed or downloaded to a PC, or permits remote operation—automating tedious or complex measurements.

The 610 combines a state-of-the-art microprocessor with a graphic display. Operation is simple with five menu keys: ON/OFF, START, C, ▲ and ▼. A menu, submenu and list allows the user to label, store and recall measurements as needed. Cercis OPMs utilize a quick-connect fiber optic connector interface. All models are supplied with one interchangeable adapter specify; others available separately.



Model 610 Series

If you can use a cell phone, . . . you can operate the 610 power meter.

Menus, submenus, and lists access all features.



Features

- All Features Accessible via Menu, Submenu & List
- 3 Modes: nW, μW, mW, dBm & dB with Relative Store
- Input Range: +5 to -70 dBm (varies by detector type)
- Digital Calibration (up to 8 calibration points per meter)
- Easily Readable Graphic Display, adjustable contrast
- >50 hours 9 V Battery Life
- Ergonomic, Tactile Rubber Keys
- Interchangeable Fiberoptic Connector Adapters

Key	Option	Description				
ON/OFF	Power on/off	Turn optical power meter on or off				
Start ▲	Menu Select Submenus	<table border="1"> <tr> <td>Wavelength Calibration</td> <td>Mode dB, dBm nW, μW, mW</td> <td>Data Logger Store Recall</td> <td>System Shutoff C Key</td> </tr> </table>	Wavelength Calibration	Mode dB, dBm nW, μW, mW	Data Logger Store Recall	System Shutoff C Key
Wavelength Calibration	Mode dB, dBm nW, μW, mW	Data Logger Store Recall	System Shutoff C Key			
C	Data Store / Cancel	Display power, store, recall, mode, wavelength, scanning				
▲ ▼	Navigate	Scroll up or down through submenu or list				

Model	Units	610g	610i	610iH	610s
Detector Type		Germanium (3 mm)	InGaAs (2 mm)	InGaAs (2 mm)	Silicon (3.5 mm)
Power Range	dBm	+5 to -50	+5 to -70	+23 to -45	+6 to -60
Wavelengths, calibrated	nm	850/1310/1550	850/1310/ 1550/1625	980/1310/ 1480/1550/1625	630/780/ 850/980
Accuracy / Resolution	dB	Absolute Accuracy +/- 0.25		Resolution +/- 0.01	
LCD Graphic Display	-	View 46 X 18.5 mm; 98 X 32 pixel; blue characters, background reflective gray, contrast adjustable, backlight not required. Display incorporates 3 distinct annunciators: nW, μW, mW (auto-ranging) dB & dBm; + BAT (Low Bat) and LOW / OVL (power too low/too high).			
Function	W dBm dB	nW, μW, mW (autoranging) dBm (absolute power) dB (relative power)			
Connector Interface		See list reverse side; interchangeable bayonet click-on/off mate/remate			
PC Control-ACSII		Windows ^R or Linux Compatible—LabView ^R , Visual C++ ^R , Visual Basic ^R			
Power	V	Requires one 9 Volt alkaline battery (>50 hrs. battery life) or optional 120 V AC 9V adaptor (negative center) or 90—264 V AC, 47-63 Hz interchangeable 9V adaptor.			

Specifications subject to change without notice. MADE IN USA



Cercis, Inc.

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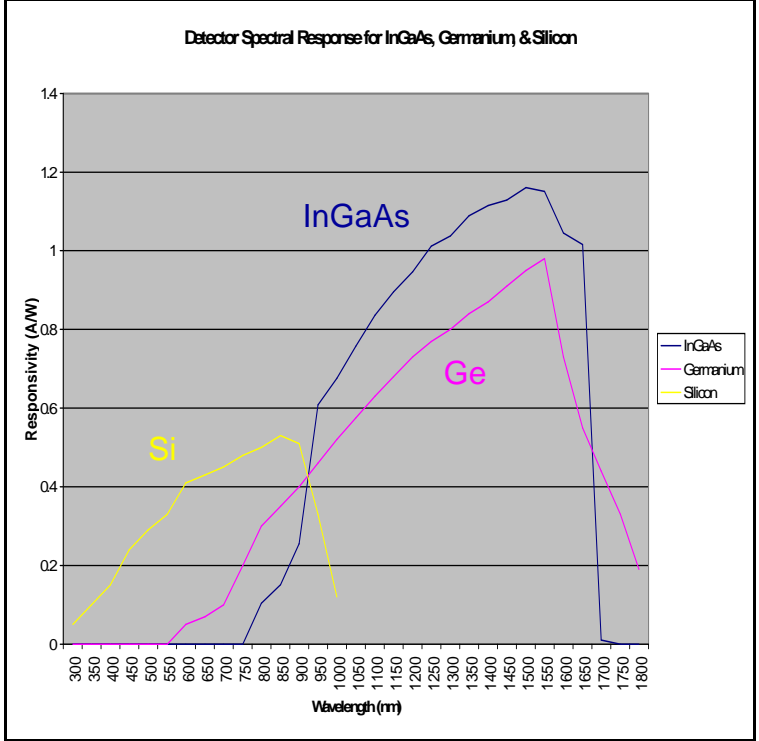
Part Number	Adapter Type Description
101	Universal 2.5 mm Adapter <small>(default supplied w/ meter)</small>
102	FC Adapter
103	ST Adapter
104	SC Adapter
105	LC Adapter
106	SMA 905/906 Adaptor
107	MU Adapter
110	Universal 1.0 mm Adapter



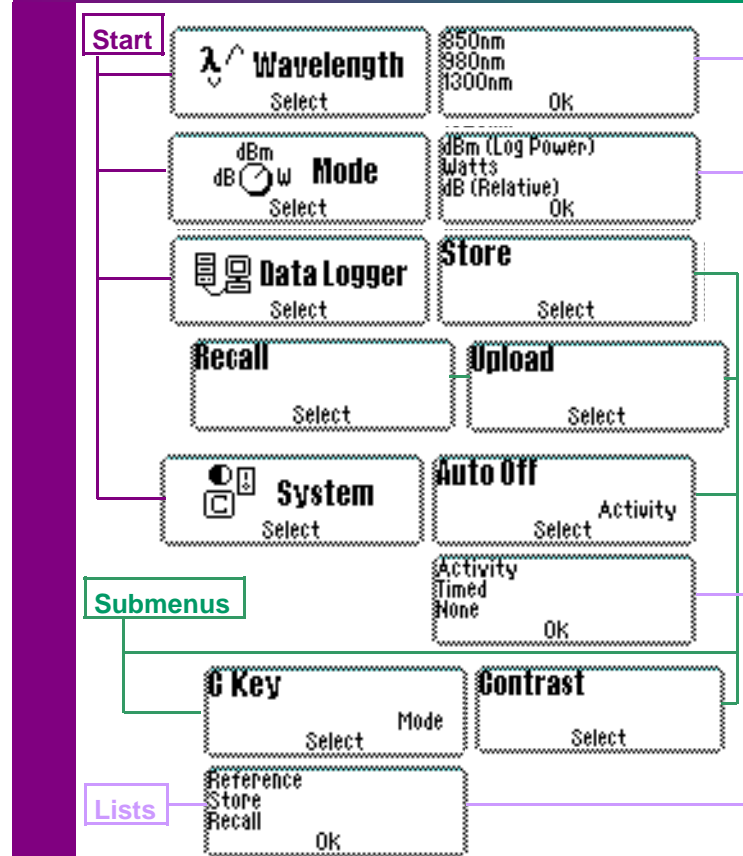
Part Number	Description
610i-40-1NA	610i 2mm InGaAs Power Meter
610iH50-1NA	610iH 2 mm High Power InGaAs OPM

Responsivity vs. Wavelength

Model 610g (Ge), Model 610i, 610iH (InGaAs), Model 610s (Si)



Menus, Submenus & Lists



Information

Calibration
 All Cercis Optical Power Meters are calibrated using procedures and equipment traceable to the US National Institute of Standards & Technology (NIST).

Holster for Additional Protection and Convenience
 Included with every instrument is a removable protective housing. This molded silicon shell protects against shock in the field, and has a pivoting bale to hold the instrument upright when required. Also, there are holes for a wrist or neck strap.

Operational & Mechanical Data

Temperature Range Operating	C	-10 C to +50 C
	(F)	(20 to 50 F)
Storage	C	-35C to +70 C
	(F)	(20 to 50 F)
Dimensions Instrument (with battery)	mm	70 X 125 X 25 mm
	(in.)	(2.75 X 5 X 1 in.)
Instrument w/ Holster		75 X 130 X 40 mm (3.00 X 5 X 1.5 in.)
Weight Instrument (with battery)	g	241 g (7.6 oz.)
	(oz.)	545 g (12.4 oz.)