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Find the *Anritsu ML93B* at our website: ***Click HERE***

GENERAL

The ML93B Optical Power Meter is designed to measure optical power in conjunction with the MA95A/MA96E/MA97B/MA98A/MA911A/MA912A/MA913A Optical Power Sensor. The ML93B has 0.001 dB resolution (dB (REL) display) and is used for highly accurate measurements. The combinations of the Meter and the Sensor are shown as follows.

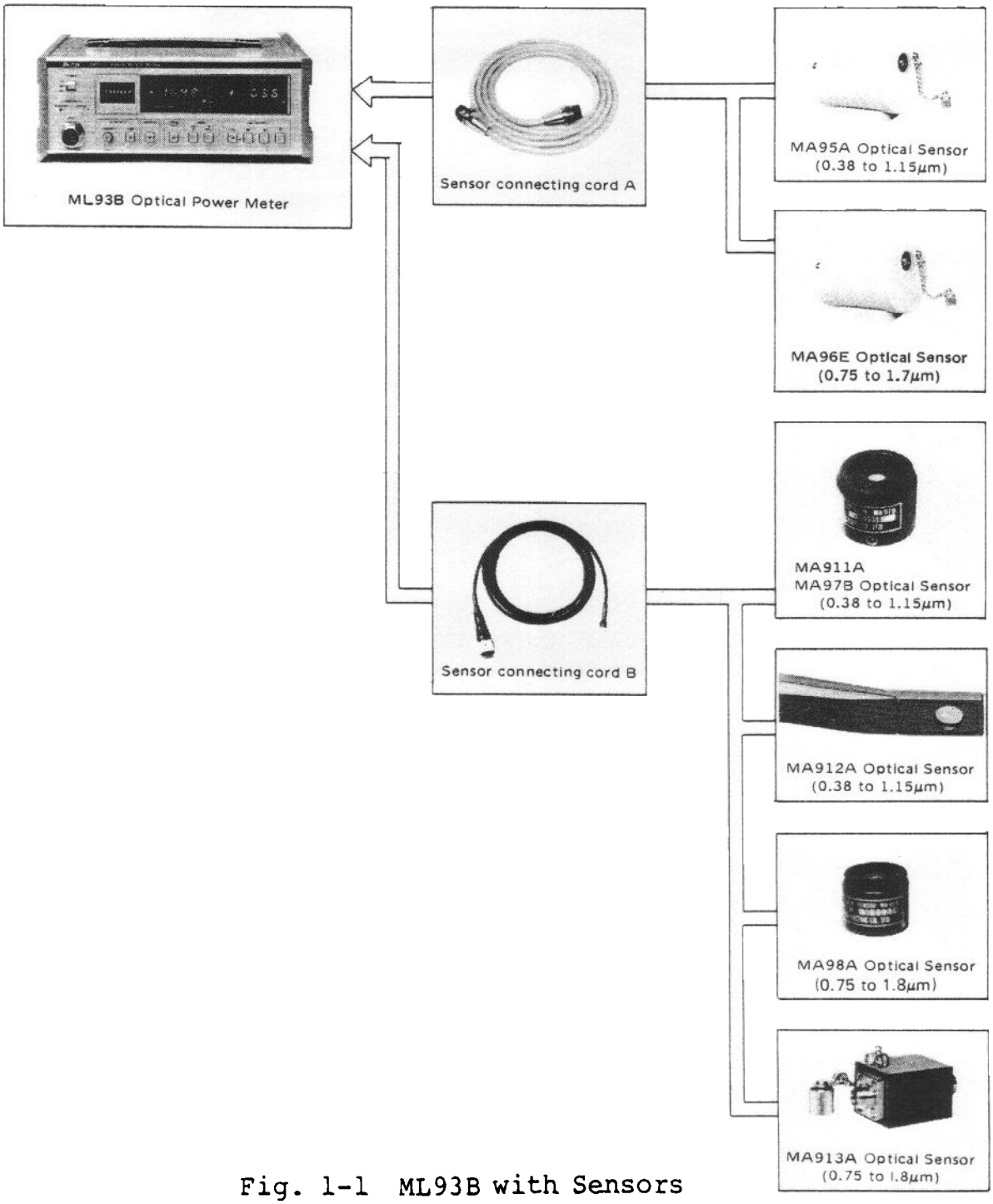


Fig. 1-1 ML93B with Sensors

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Features

- Wide Wavelength Range

  Two optical power sensors cover a wavelength range from 0.38 to 1.8 µm.

- Wide Power Measuring Range

  Two optical power sensors cover a wide range of power from -90 to +10 dBm.

- Excellent Interchangeability

  The power meter can be connected to any optical power sensor without readjustment.

- Automatic Zero Adjustment

  Zero adjustment can be automatically done with a single flip of the switch.

- Battery Operation

  The ML93B can be operated on an external Battery Pack MZ95A.

- The ML93B with digital display permits direct reading of measurements with high accuracy.

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COMPOSITION AND SPECIFICATIONS

2.1 Standard Composition

Table 2-1 Standard Composition

Name	Quantity	Remarks
ML93B optical power meter	1	
Connecting cord A for MA95A/96E	1	2 m, 16-pin connector
Connecting cord B for MA97B/98A/911A/912A/913A	1	2 m, 6-pin connector 16-pin connector
Instruction manual	1	
Fuses	1 set	1 set: 2 A ..... 1, *** A 1

2.2 Option

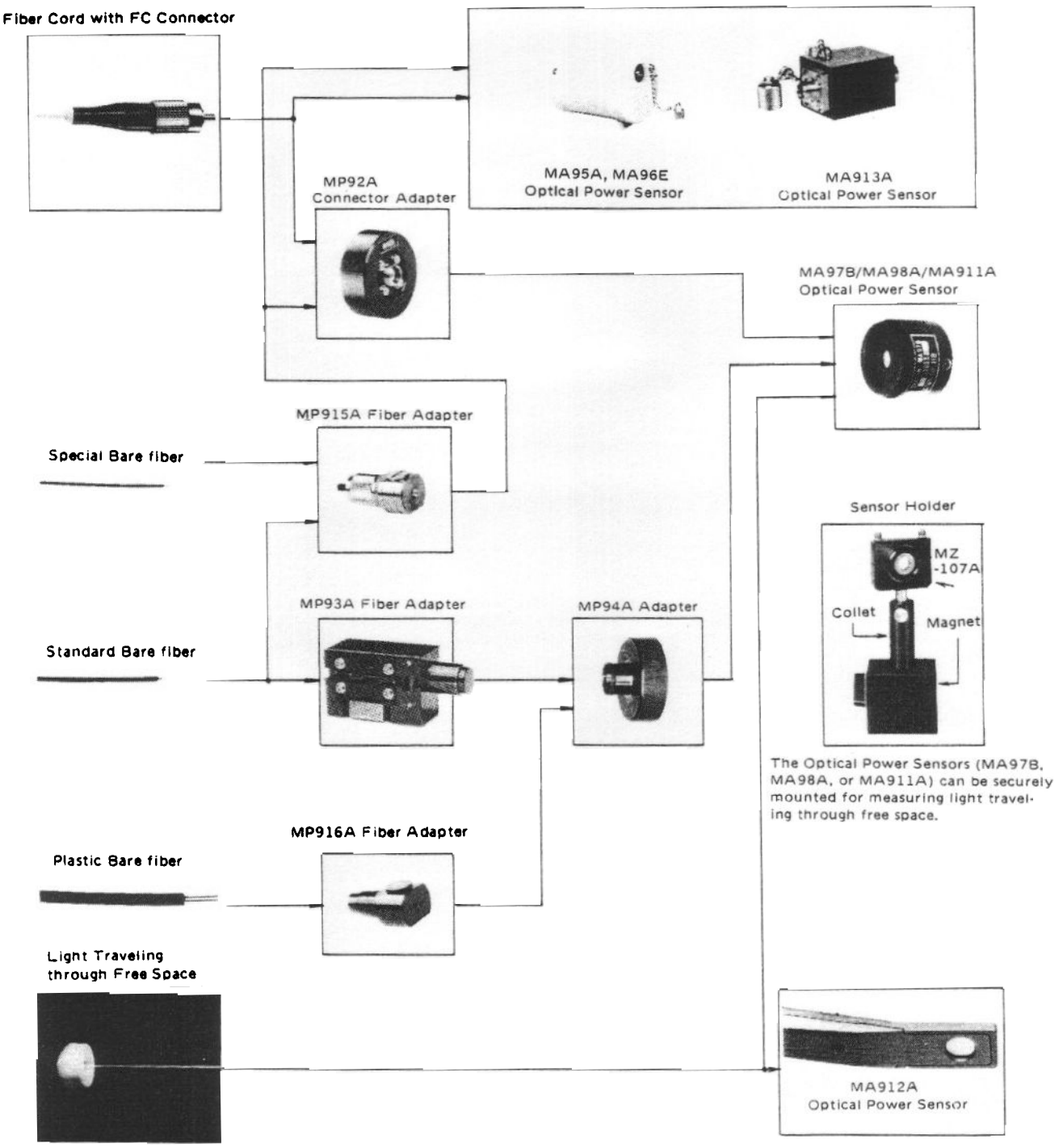
GP-IB interface (OPTION 02)

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2.3 Optional Accessories

Name	Remarks
MA95A optical power sensor	
MA96E optical power sensor	
MA97B optical power sensor	
MA98A optical power sensor	
MA911A optical power sensor	
MA912A optical power sensor	
MA913A optical power sensor	
Connecting cord A for MA95A/96E	1.7 m, 16-pin connectors
Connecting cord B for MA97B/98B/911A/912A/913A	1.7 m, 6-pin connector, and 16-pin connector
Accessory Box	
MP915A fiber adapter	
MP92A connector adapter	
MP93A fiber adapter	
MP94A adapter for MP93A	
GP-IB cord	1 m
Conversion Connector	GP-IB ⟶ IEC-IB conversion
MZ95A battery pack	Approximately four hours operation (with no GP-IB)
MZ96A battery charger	
DC POWER SUPPLY cord	

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. Standard fiber: Clad diameter of 0.125mm, nylon cover diameter of 0.9mm
. Special fiber: Clad diameter of 0.125mm, nylon cover diameter of 0.25 to 1mm
. Plastic fiber: Clad diameter of 1mm
For other fibers, consult Anritsu.

Fig. 2-1 Sensor Adapters

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Table 2-2 Specifications

		Optical Power Meter ML93B					
Sensor	Model	MA95A	MA96E	MA97B	MA98A	MA911A/912A	MA913A
	Wavelength range	0.38 to 1.15 µm	0.75 to 1.7 µm	0.38 to 1.15 µm	0.75 to 1.8 µm	0.38 to 1.15 µm	0.75 to 1.8 µm
	Element	Si photo diode	InGaAs photo diode	Si photo diode	Ge photo diode	Si photo diode	Ge photo diode
	Active area diameter	——	——	D = 9.5 mm	D = 5 mm	D = 8 mm	——
	Input type	Connector*		Photo diode		Photo diode	Connector*
	Dimensions and weight	65 ϕ, 85 L mm ≤ 0.7 kg		35 ϕ, 27 L mm ≤ 0.1 kg (MA97B/98A/911A)/ 16 ϕ, 130 L mm ≤ 25 g (MA912A)			30 H, 25 W, 35 D mm ≤ 0.3 kg
Indicator	Model	ML93B					
	Display	Selection among Watts/dBm/dB (REL) Four digits and a small analog meter					
	Calibration coefficient	Front-panel adjustment					
	Recorder output	For each range, 1 V corresponding to full-scale and 0.316 V to -5 dB					
	Relative value display	Digital 4 digits, 0.001 dB					
	Averaging	ON/OFF switchable					
	Dimensions and weight	282 W, 99 H, 200 D mm ≤ 3.5 kg					
Overall	Power measuring range	-90 to 0 dBm (at 0.85 µm) 9 ranges	-90 to 0 dBm (at 1.3 µm) 9 ranges	-65 to +10 dBm (at 0.85 µm) 7 ranges	-40 to +10 dBm (at 1.3 µm) 5 ranges	-65 to +10 dBm (at 0.85 µm) 7 ranges	-50 to 0 dBm (at 1.3 µm) 6 ranges
	Accuracy	±5% (0.85 µm, -10 dBm)	±5% (1.3 µm, -10 dBm)	±5% (0.85 µm, -10 dBm)	±5% (1.3 µm, -10 dBm)	±5% (0.85 µm, -10 dBm)	±5% (1.3 µm, -10 dBm)
	Resolution	Watts display: 0.1 to 1% dB (REL) display: 0.001 dB dBm display : 0.01 dB					
	Power	** V ±10%, 50/60 Hz, ≤20 VA or Battery Pack MZ95A or +9 to 20 V external DC power supply					

* The standard optical connector is the FC type.
Consult us should you need modification of the optical connector.

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