

# NETWORK ANALYZERS

## 8757/8756 System Accessories (cont'd)

Models 85027 A/B/C/E, 85020 A/B, 85025 A/B/C/E, R/Q/U 85026A, 11664 A/C/D/E

The HP 85025C Detector Adapter is designed for use with the HP 8757A only, and can operate in either AC or DC detection modes. A softkey calibration sequence calibrates the HP 8757A display to your particular detector for an accurate display of power level. The analyzer can then account for the voltage versus input power characteristics of the detector in use. This calibration requires two known calibration inputs, one at a high level (linear operating region, above 0 dBm) and one at a low level (square law region, below -20 dBm).

The HP 11664C Detector Adapter is designed for use with the HP 8757A, 8756A, and 8755C scalar analyzers. The HP 11664C is matched to the particular diode used via two screwdriver adjustments. One adjustment sets the adapter's amplifier gain to the correct power level indication on the scalar network analyzer. The second adjustment matches the input impedance of the adapter to the load impedance of the detector. Together, the voltage versus power characteristics of the detector are calibrated for the scalar analyzer display.

### DIRECTIONAL BRIDGE SUMMARY

For use with the HP 8757A, 8756A, or 8755C in AC detection mode only:								
Bridge	Freq. Range (GHz)	Nominal Impedance	Connector		Directivity (dB)	Test Port Match (SWR)	Weight	
			Input	Test port			Net	Shipping
85020A	.01-4.3 GHz	50 ohms	Type-N (f)	Type-N (f)	.01-3 GHz: 40 dB 3-4.3 GHz: 34 dB	.01-3 GHz: <1.22 3-4.3 GHz: <1.25	0.5 kg (1.2 lb)	2.3 kg (5 lb)
85020B	.01-2.4 GHz	75 ohms	Type-N (f)	Type-N (f)	40 dB	.01-1.3 GHz: <1.25 1.3-2.4 GHz: <1.43	"	"
For use with the HP 8756A, or 8755C in AC detection mode or with the HP 8757A in either AC or DC detection modes								
85027A	.01-18 GHz	50 ohms	Type-N (f)	APC-7	40 dB	.01-8.4 GHz: <1.15 8.4-12.4 GHz: <1.25 12.4-18 GHz: <1.43	0.5 kg (1.2 lb)	2.3 kg (5 lb)
85027B	.01-26.5 GHz	50 ohms	APC-3.5 (f)	APC-3.5 (f)	.01-20 GHz: 40 dB 20-26.5 GHz: 36 dB	.01-8.4 GHz: <1.15 8.4-20 GHz: <1.43 20-26.5 GHz: <1.75	"	"
85027C	.01-18 GHz	50 ohms	Type-N (f)	Type-N (f)	.01-12.4 GHz: 36dB 12.4-18 GHz: 34 dB	.01-8.4 GHz: <1.15 8.4-12.4 GHz: <1.25 12.4-18 GHz: <1.43	"	"
85027E	.01-26.5 GHz	50 ohms	APC-3.5 (f)	APC-3.5 (m)	.01-20 GHz: 40dB 20-26.5 GHz: 36 dB	.01-8.4: <1.15 8.4-20 GHz: <1.43 20-26.5 GHz: <1.75	"	"

### Detector Summary

For use with the HP 8757A, 8756A, or 8755C in AC detection mode only:

Detector	Freq. Range (GHz)	Connector Type	Return Loss (dB)	Dynamic Range		Weight	
				8757	8756	Net	Shipping
11664A <sup>1</sup>	.01-18	Type-N (M)	.01-.04 GHz: 10 dB .04-4 GHz: 20 dB 4-12 GHz: 18 dB 12-18 GHz: 16 dB	+16 to -60 dBm	+10 to -50 dBm	0.17 kg (0.4 lb)	0.9 kg (2 lb)
11664E	.01-26.5	APC-3.5 (M)	.01-.04 GHz: 10 dB .04-6 GHz: 20 dB 6-20 GHz: 16 dB 20-26.5 GHz: 12 dB	+16 to -60 dBm	+10 to -50 dBm	"	"
11664D	26.5-40	WR-28	12 dB	+10 to -50 dBm	+10 to -50 dBm	0.24 kg (0.5 lb)	1.0 kg (2.2 lb)
11664C	<sup>3</sup>	SMA (M)	<sup>3</sup>	<sup>3</sup>	<sup>3</sup>	0.17 kg (0.4 lb)	0.9 kg (2 lb)

For use with HP 8757A only in either AC or DC detection modes:

	Freq. Range (GHz)	Connector	Return Loss (dB)	AC mode	DC mode	Net	Shipping
85025A <sup>1</sup>	.01-18	Type-N (M)	.01-.04 GHz: 10 dB .04-4 GHz: 20 dB 4-18 GHz: 17 dB	+16 to -55 dBm	+16 to -50 dBm	0.24 kg (0.5 lb)	1.0 kg (2.2 kg)
85025B	.01-26.5	APC-3.5 (M)	.01-18 GHz: Same as 85025A 18-26.5 GHz: 12 dB	+16 to -55 dBm	+16 to -50 dBm	"	"
R85026A <sup>2</sup>	26.5-40	WR-28	12 dB	+10 to -50 dBm	+10 to -45 dBm	"	"
Q85026A <sup>2</sup>	33-50	WR-22	12 dB	+10 to -50 dBm	+10 to -45 dBm	"	"
U85026A <sup>2</sup>	40-60	WR-19	12 dB	+10 to -50 dBm	+10 to -45 dBm	"	"
85025C <sup>2</sup>	<sup>3</sup>	SMA (M)	<sup>3</sup>	<sup>3</sup>	<sup>3</sup>	"	"

- Option 001 changes to APC-7 connector.
- The HP 85026 series detectors and the HP 85025C require HP 8757A firmware revision 2.0 or higher. To upgrade previous revisions order the HP 11614A Firmware Enhancement.
- Depends on the particular external detector used.