

## 42841A Bias Current Source



**Dimensions (approx.):** 426 (W) x 177 (H) x 498 (D) [mm]

**Weight (approx.):** 18 kg

**DC bias Current Accuracy:**

Range	Resolution	Accuracy ( $\pm$ )
0.00 A to 1.00 A	0.01 A	1% + 5 mA
1.1 A to 5.0 A	0.1 A	2%
5.1 A to 20.0 A	0.1 A	3%

### Measurement Configurations:

#### 0-20Adc Bias Configuration (4284A/E4980A)

E4980A with Opt. E4980A-002	1 ea.
4284A with Opt. 4284A-002	1 ea.
42841A Bias Current Source	1 ea.
42842A or 42842B Bias Test Fixture	1 ea.
16048A Test Leads	1 ea.

**Basic Measurement Accuracy:** 2% (< 1 kHz), 1% ( $\geq$  1 kHz), 2% (> 1 MHz)

For detailed information, refer to the operation manual of 42841A

#### 0-40Adc Bias Configuration (4284A/E4980A)

E4980A with Opt. E4980A-002	1 ea.
4284A with Opt. 4284A-002	1 ea.
42841A Bias Current Source	2 ea.
42842B Bias Test Fixture	1 ea.
42843A Bias Current Cable	1 ea.
16048A Test Lead	1 ea.

**Basic Measurement Accuracy:** 2% (< 1 kHz), 1% ( $\geq$  1 kHz), 2% (> 1 MHz)

For detailed information, refer to the operation manual of 42841A

#### 0-10Adc Bias High Frequency Configuration (4285A)

4285A with Opt. 4285A-002	1 ea.
42841A Bias Current Source	1 ea.
42842C Bias Test Fixture*	1 ea.
16048A Test Leads	1 ea.

**Basic Measurement Accuracy:**  $\sqrt{f}$  [%] + 4285A's accuracy [%]

f: [MHz]

For detailed information, refer to the operation manual of 42841A

\*Opt. 42842C-001 adds SMD test fixture which is available for 42842C.

**Description:** The 42841A is a bias current source for use with the E4980A, 4284A\* or 4285A. The configured measurement system has the capability to perform DC bias current measurements of up to 40 A in the 20 Hz to 2 MHz frequency range and up to 10 A in the 75 kHz to 30 MHz frequency range.

**Applicable Instruments:** E4980A with Option E4980A-002, 4284A\* with Option 4284A-002, 4285A with Option 4285A-002  
\* denotes the instrument is obsolete.

**Maximum DC Bias Current:** 20 A

**Furnished Accessories:**

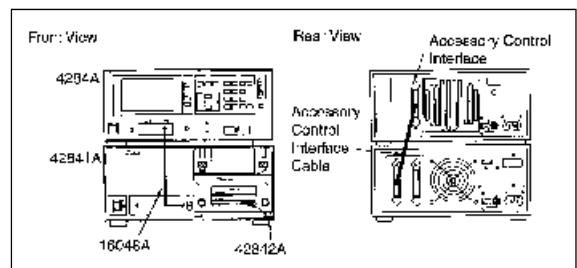
Description	P/N	Qty.
Bias Current Interface Cable	42841-61640	1
Power Cable	depends on country	1
Operation Manual	42841-90010	1

### Options:

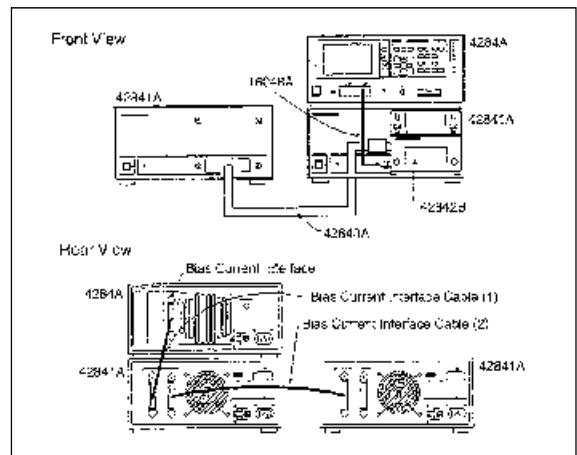
42841A-907: Front handle Kit

42841A-908: Rack Mount Kit

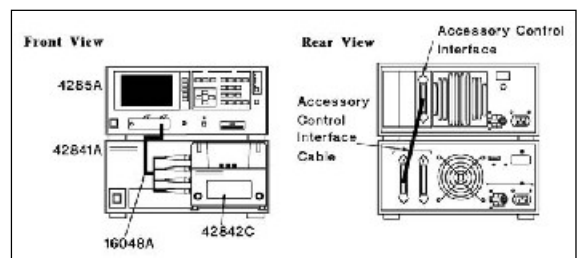
42841A-909: Rack Flange and Handle Kit



20 A measurement system



40 A measurement system



Bias current system configuration for 42842C