



# Calibration Cart

## SCC7 Series



### The RF Experts

SCC7 Series, Calibration Cart is designed for immediate, effortless use. It has three primary components: the 4421 Multifunction Power Meter for displays RF power; the 4020, 4027A and 4027F Series Power Sensors are highly accurate sensors for measuring RF power without requiring calibration or external couplers or attenuators; and low reflection 50 Ohm loads that can dissipate 1 kW to 10 kW max. These components are installed on a cart for easy transportation and connected so that the only setup required is connecting AC and RF power.

- High return loss ensures minimal power measurement error contribution.
- Available in international and domestic versions.
- Turnkey RF Measurements.
- Designed for easy transportation and effortless use.
- Service plans available with Bird Service Center.

### PROBLEMS/SOLUTIONS

Require for Semiconductor applications.

- Suitable for use in a Clean Room environment.

Requires rugged design for daily use

- The mobile cart is stainless steel and has locking wheels.

Adaptable for future requirements.

- Frequency and power upgrades available.

# Calibration Carts

## SCC7 Series

### CHARACTERISTICS

<b>Power Levels</b>	1, 2.5, 5, 10 kW
<b>Meter</b>	4421
<b>Sensor Options</b>	4020 Series or 4027A Series (See Below)
<b>Load Options</b>	8251, 8890-300, 8921, 8931-115, 8931-230 (See Below)
<b>Impedance</b>	50 Ohm
<b>Frequency Range 4020 Sensor</b>	100 KHz - 1000 MHz
<b>Frequency Range 4027A Sensor</b>	250 KHz - 65 MHz
<b>Accuracy 4020 Series</b>	±3% across power and frequency range
<b>Accuracy 4027A Series</b>	±1% at calibration frequency and power levels ±2% over remainder of power range, and at other than calibration frequencies
<b>Casters</b>	4 locking swivel
<b>Connector Type</b>	*Customer Specified
<b>Operating Position</b>	Vertical only
<b>Power Requirements</b>	115/230 VAC, ±10%, 50/60 Hz
<b>Ambient Temp Range</b>	0° to 45°C (For 10kW 0°C to +40°C)
<b>Storage Temperature</b>	-20°C to +70°C
<b>Humidity</b>	85% Max., Non condensing
<b>Altitude</b>	Load derated above 5,000 feet
<b>5kW &amp; 10kW Size/Weight</b>	52" L x 20" W x 42" H / 250 lbs. Fully assembled
<b>1kW &amp; 2.5kW Size/Weight</b>	42" L x 20" W x 42" H / 175 lbs. Fully assembled
<b>Material of Construction</b>	Stainless steel cart
<b>Applicable Standards</b>	CE

\* For connector options, please refer to our catalog or contact sales at 866.695.4569 or sales@birdrf.com

### 4020 SERIES POWER SENSOR

Model	Frequency Range	Power Input
4021	1.8-32 MHz	300 mW to 1 kW at 1.2 kW max
4022	25-1000 MHz	300 mW to 1 kW at 1.2 kW max
4024	1.5-32 MHz	3 W to 10 kW at 1.2 kW max
4025	100-2500 kHz	3 W to 10 kW at 1.2 kW max

### 4027A SERIES POWER SENSOR

Model	Frequency Range	Power Input
4027A250k	250-400 kHz	3 W to 10 kW
4027A400k	400-550 kHz	3 W to 10 kW
4027A800k	800-950 kHz	3 W to 10 kW
4027A2M	1.5-2.5 MHz	3 W to 10 kW
4027A4M	3-5 MHz	3 W to 10 kW
4027A10M	10-15 MHz	3 W to 10 kW
4027A12M	10-15 MHz	300 mW to 1 kW
4027A25M	25-30 MHz	3 W to 9 kW
4027A35M	35-45 MHz	3 W to 7.5 kW
4027A60M	45-65 MHz	3 W to 6 kW
4027A100M	95-105 MHz	3 W to 4 kW
4027A150M	150-170 MHz	3.75 W to 3.75 kW

### ULTRA-STABLE SC13 LOADS

Model	Frequency Range	Power Input
8865SC13	DC to 28 MHz at 1.1 max. (VSWR less than 1.05:1)	1kW
8890-300SC13	DC to 28 MHz at 1.1 max. (VSWR less than 1.05:1)	2.5 kW
8921SC13	DC to 28 MHz at 1.1 max. (VSWR less than 1.05:1)	5 kW
8931-115SC13	DC to 28 MHz at 1.1 max. (VSWR less than 1.05:1)	10 kW
8931-230SC13	DC to 28 MHz at 1.1 max. (VSWR less than 1.05:1)	10 kW

### HIGH POWER LOADS

Model	Frequency Range	Power Input
8251	DC to 1 GHz at 1.1 max.	1kW
8890-300	DC to 1 GHz at 1.1 max. 1 GHz to 2 GHz at 1.25 max. 2 GHz to 2.4 GHz at 1.3 max.	2500 W continuous
8921	DC to 1 GHz at 1.1 max.	5000 W continuous
8931-115	DC to 400 MHz at 1.15 max. 400 MHz to 1 GHz at 1.20 max.	10 kW continuous w/ blower on 2.5 kW continuous w/ blower off
8931-230	DC to 400 MHz at 1.15 max. 400 MHz to 1 GHz at 1.20 max.	10 kW continuous w/ blower on 2.5 kW continuous w/ blower off

