

# Current Sweeper: Full Scale Current vs Step Size

The Digital to Analog Converter in the Current Sweeper is a 16 bit device.

As used in the Current Sweeper there is one DAC Code for zero output current and 32,767 codes with a positive output and 32,767 codes with a negative output.

As is typical in binary numbering systems, with a balanced number of positive and negative values, there is one potential DAC Code that is not used.

## Full Scale Current vs Step Size

<u>Full Scale Current</u>	<u>Current Step Size</u>	<u>Full Scale Current</u>	<u>Current Step Size</u>	<u>Full Scale Current</u>	<u>Current Step Size</u>
0.1 mA	3.052 nA	1 mA	30.52 nA	10 mA	0.3052 uA
0.2 mA	6.104 nA	2 mA	61.04 nA	20 mA	0.6104 uA
0.5 mA	15.259 nA	5 mA	152.59 nA	50 mA	1.5259 uA
				100 mA	3.0519 uA