BNC_PI2

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General

The dual channel voltage transformer BNC_PI2 adjusts the voltage signal V_{in} to match the input voltage range of signal converter SICO2 and data logger DL16.

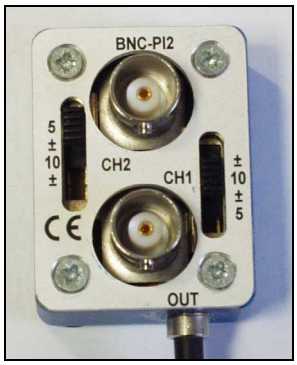

Figure 1: BNC_PI2.

Input Range

The input voltage range of each channel is given by the corresponding switch position:

Scale CH1	V_{in} Range	Scale CH2	V_{in} Range
±	-10...10 V	5	0...5 V
10	0...10 V	±	-5...5 V
±	-5...5 V	10	0...10 V
5	0...5 V	±	-10...10 V

Output

The output voltage depends on the input voltage range and is given as follows:

V_{in} Range	V_{out}	$V_{DL16/SICO2}$
0...5 V	V_{in}	V_{in}
-5...5 V	V_{in} / 2 + V_{ref} / 2	V_{in} / 2 + 2.56 V
0...10 V	V_{in} / 2	V_{in} / 2
-10...10 V	V_{in} / 4 + V_{ref} / 2	V_{in} / 4 + 2.56 V

Circuit Diagrams

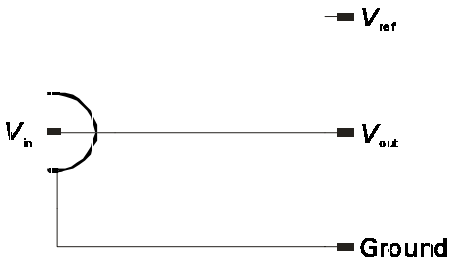

Figure 2: Circuit Diagram (V_{in} = 0...5 V).

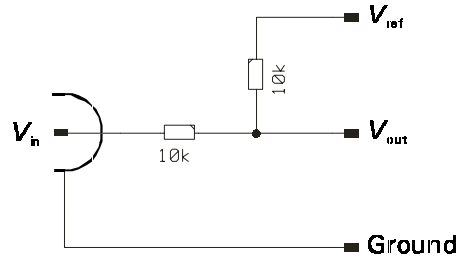

Figure 3: Circuit Diagram (V_{in} = -5...5 V).

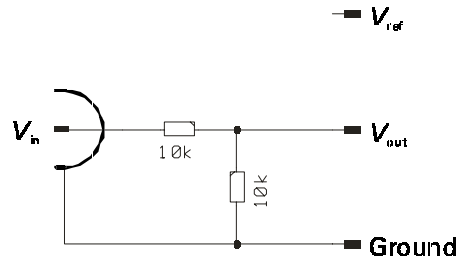

Figure 4: Circuit Diagram (V_{in} = 0...10 V).

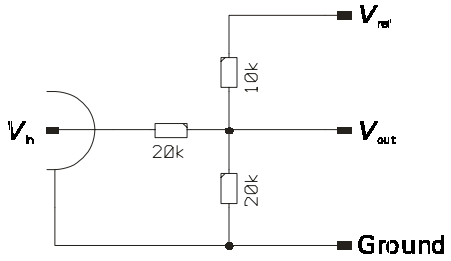

Figure 5: Circuit Diagram (V_{in} = -10...10 V).