



DATALOGGERS

DATAHOG2

Resolution and Measurement Limits

The DataHog2 logger has a resolution of 1 count in 19,000. The measurement is limited by the "noise" level which is around 10 counts. For analogue channels this can be interpreted as:



VOLTAGE INPUTS

<i>Gain</i>	<i>Range</i>	<i>Resolution (Range/19,000)</i>	<i>Measurement limit</i>
1	± 2V	0.1 mV	1 mV
10	± 200 mV	0.01 mV	0.1 mV
100	± 20 mV	0.001 mV	0.01 mV
1000	± 2 mV	0.1 mV	1 mV



CURRENT INPUTS

<i>Resistor</i>	<i>Range</i>	<i>Resolution (Range/19,000)</i>	<i>Measurement limit</i>
5 kohm	400 µA	0.02 µA	0.2 µA
10 kohm	200 µA	0.01 µA	0.1 µA
50 kohm	40 µA	0.002 µA	0.02 µA
100 kohm	20 µA	0.001 µA	0.01 µA
500 kohm	4 µA	0.2 nA	2 nA
1 Mohm	2 µA	0.1 nA	1 nA
5 Mohm	400 nA	0.02 nA	0.2 nA
10 Mohm	200 nA	0.01 nA	0.1 nA



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