

Oscilloscope Specifications: What does "div" mean in the specifications?

February 27, 2019

The term "div" for most SIGLENT specifications is equal to the Vertical Scale value (Commonly shown in units of Volts/div).

Take the specification for the DC Gain Accuracy of a SIGLENT SDS1052DL+

For ranges ≤ 100 mV/div, the DC Gain Accuracy is given as

```
\pm [3\% \times (|reading|+|offset|) +1\% \times |offset| +0.2 * div+2 mV]
```

If:

Reading = 0.5 V

Offset is 0.1 V

Vertical scale (div) = 100 mV/div = 0.1 V/div,

Then DC Gain is calculated as follows:

```
 \pm [3\% \times (|reading|+|offset|) + 1\% \times |offset| + 0.2 * div + 2 mV] =  
 \pm [3\% \times (|0.5 \text{ V}|+|0.1 \text{ V}|) + 1\% \times |0.1 \text{ V}| + 0.2 \text{ div} * (0.1 \text{ V/div}) + 0.002 \text{ V}] =  
 \pm [3\% \times (0.6 \text{ V}) + 0.0001 \text{ V} + 0.02 \text{ V} + 0.002 \text{ V}] = 0.018 \text{ V} + 0.0001 \text{ V} + 0.02 \text{ V} + 0.002 \text{ V} = 0.0401 \text{ V}
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