

# STDEVPA function - The function of estimating standard deviations based on an entire population including both text and logical values ??in Excel

STDEVPA function: The function of estimating standard deviation based on the whole population including both text and logical values. Standard deviation is a measure of the dispersion of a value against the mean.

Syntax: STDEVPA (value1, [value2], ...)

The following article introduces you to the **STDEVPA** function - one of the functions in the statistical group is very popular in Excel.

## Hàm STDEVPA

**Description:** The standard deviation estimation function is based on the whole population, including both text and logical values. Standard deviation is a measure of the dispersion of a value against the mean.

**Syntax:** STDEVPA (value1, [value2], .)

Inside:

- **value1**, [**value2**], **..** are the values ??you want to calculate the standard deviation, where **value1** is the required parameter, the remaining parameters are optional and contain up to 254 **value** parameters .

**Attention:**

- The **STDEV.S** function assumes that its arguments are the entire population.
- For large sample sizes -> the functions **STDEVA** and **STDEVPA** return the same results.
- Standard deviation calculated using the method '**n**'.
- Arguments can be numbers, names or arrays that contain numbers.
- The logical value with **True** is 1 default, **false** value is 0 default.
- If the argument is an array or a reference, only values ??in that array are used.

- When the number is represented by a text style when typing directly into the argument list -> that value is still counted.
- Function error occurs when arguments are text or error values ??cannot be converted.
- If you do not want to calculate both logical values ??and text -> use the **STDEVPA** function
- **STDEVPA** equation uses the formula:

$$\left[ \sqrt{\frac{\sum \left\{ \left( x - \overline{x} \right)^2 \right\}}{n}} \right]$$

Inside:

+ **x** is the sample mean **AVERAGE** (number1, number2, .)

+ **n** is the sample size.

**For example:**

Calculate the standard deviation based on the overall population of values ??in the following data table:

Hàm STDEVPA trong Excel			
Nhóm hàm thống kê			
STT	Tham số	Giá trị	
1	number1	120	
2	number2	abc	
3	number3	134	
4	number4	TRUE	
5	number5	164	
6	number6	128	
7	number7	130	
Độ lệch chuẩn dựa trên mẫu của tập dữ liệu trên là:		?	

- In the cell to calculate enter the formula : = **STDEVPA** (D6: D12)

Hàm STDEVPA trong Excel			
Nhóm hàm thống kê			
STT	Tham số	Giá trị	
1	number1	120	
2	number2	abc	
3	number3	134	
4	number4	TRUE	
5	number5	164	
6	number6	128	
7	number7	130	
Độ lệch chuẩn dựa trên mẫu của tập dữ liệu trên là:		=STDEVPA(D6:D12)	

- Press **Enter** -> standard deviation based on the whole of the above values ??is:

Hàm STDEVPA trong Excel			
Nhóm hàm thống kê			
STT	Tham số	Giá trị	
1	number1	120	
2	number2	abc	
3	number3	134	
4	number4	TRUE	
5	number5	164	
6	number6	128	
7	number7	130	
Độ lệch chuẩn dựa trên mẫu của tập dữ liệu trên là:		62.18	

Above are instructions and some specific examples when using the **STDEVPA** function in Excel.

Good luck!

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