

STDEV.P function - The function returns the standard deviation based on the whole in Excel

STDEV.P: The function returns the standard deviation based on the whole population, ignoring logical values and text. Standard deviation is a measure of the dispersion of values against the mean. Support functions from Excel 2010 onwards. Syntax: STDEV.P (number1, [number2], ..)

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

Hàm STDEV.P

Description: The function returns standard deviations based on the whole, ignoring logical values and text. Standard deviation is a measure of the dispersion of values against the mean. Support functions from Excel 2010 onwards.

Syntax: STDEV.P (number1, [number2], ..)

Inside:

- **number1, [number2], ..** : The values you want to calculate the standard deviation, where **number1** is the required parameter, the remaining parameters are optional and contain up to 254 **number** parameters .

Attention:

- **STDEV.P** function assumes that its arguments are whole.
- For large sample sizes -> **STDEV.S**, **STDEV.P** returns the same value.
- Standard deviation calculated using the method 'n'.
- Arguments can be numbers, names or arrays that contain numbers.
- When typing logical values and presenting numeric values into function arguments -> these values are still calculated.
- Function error occurs when arguments are text or error values cannot be converted.

- If you want to calculate both logical values ??and text -> use **STDEVPA** function .

- Equation **STDEV.P** uses:

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

Inside:

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

+ **n** is the sample size.

For example:

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

The screenshot shows an Excel spreadsheet with the following content:

STT	Tham số	Giá trị
1	number1	10246
2	number2	21036
3	number3	21048
4	number4	96482
5	number5	47862

Below the table, cell B11 contains the text: "Độ lệch chuẩn dựa trên tổng thể của tập dữ liệu trên là:" followed by a large red question mark in cell D11. The spreadsheet title bar shows "ThuThuatPhanMem.vn".

- In the cell to calculate, enter the formula : = **STDEV.P** (**D6: D10**)

Hàm STDEV.P trong Excel			
<i>Nhóm hàm thống kê</i>			
STT	Tham số	Giá trị	
1	number1	10246	
2	number2	21036	
3	number3	21048	
4	number4	96482	
5	number5	47862	
Độ lệch chuẩn dựa trên tổng thể của tập dữ liệu trên là:		=STDEV.P(D6:D10)	

- Press **Enter** -> standard deviation based on overall is:

Hàm STDEV.P trong Excel			
<i>Nhóm hàm thống kê</i>			
STT	Tham số	Giá trị	
1	number1	10246	
2	number2	21036	
3	number3	21048	
4	number4	96482	
5	number5	47862	
Độ lệch chuẩn dựa trên tổng thể của tập dữ liệu trên là:		31157	

- Where the values ??of the elements in the set are text or logical values ??-> they are ignored:

Hàm STDEV.P trong Excel		
Nhóm hàm thống kê		
STT	Tham số	Giá trị
1	number1	10246
2	number2	21036
3	number3	abc
4	number4	96482
5	number5	TRUE
Độ lệch chuẩn dựa trên tổng thể của tập dữ liệu trên là:		38363

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

Good luck!

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