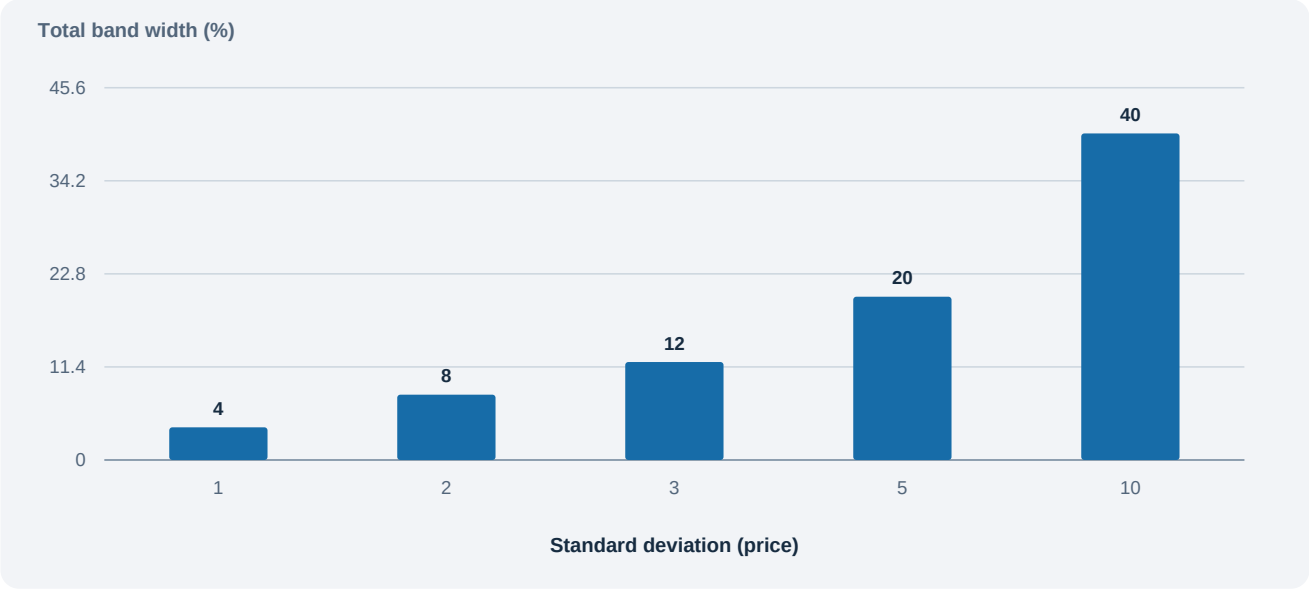
Symmetric standard-deviation band width

Price and indicators | Original synthetic example | Edition 2026-11-26

For bands placed equally above and below a moving average, total band width is twice the chosen multiple of standard deviation. A percentage width divides that distance by the center value.

FORMULA Band width percent = 100 x (2 x k x SD) / mean

SCENARIO 01: Band center 100; bands at plus/minus 2 SD



WORKED EXAMPLE

At SD 3, the total band width is 12 price units, or 12% of center 100.

COMMON MISTAKE

Treating a narrow historical band as a guarantee of the next move's direction goes beyond the measurement.

BEFORE YOU USE THE CALCULATION

1. State k and SD convention.
2. Use a nonzero center.
3. Separate width from directional hypotheses.

COMPARE TWO MORE INPUT SETS

Scenario 05: Band center 140; bands at plus/minus 2 SD. At SD 3, the total band width is 12 price units, or 8.57% of center 140.

Scenario 10: Band center 190; bands at plus/minus 2 SD. At SD 3, the total band width is 12 price units, or 6.32% of center 190.

Background context: Fidelity: Technical indicator guide

Learn. Analyze. Practice. Trade Smarter. | Original calculations; background sources provide context.

Synthetic values are not historical market data. Educational material; trading can result in substantial losses.