# What is Temperature Sensitivity Coefficient and How to input correctly?

Temperature Sensitivity Factor:
Accounts for changes in muzzle velocity with changes in temperature. Features custom input or general table with commonly used long-range powders.

Click here for guidance on creating bullet files.

MV

2700 fps

Temperature Sensitivity Coefficient is the slope of this line.
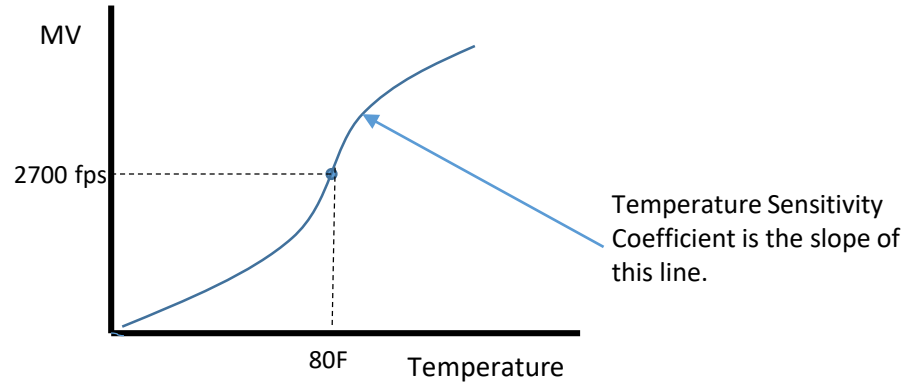
80F   Temperature

A **big advantage** of using a Temperature Sensitivity Factor is that you can input a single entry for MV at a certain temperature and then use the slope to get a very good approximation across all temperatures.

In the app the Temp Sen. Factor is found at the bottom of the profile. You can enter the factor directly or select from the library of different powders available.

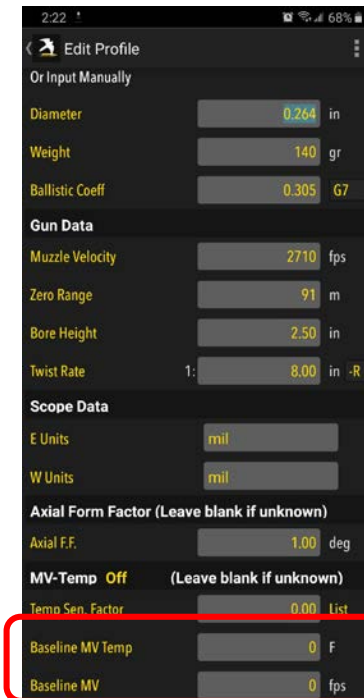| Powder	Factor	
RL19	1.23	>
Retumbo	0.16	>
Other	-1.0	>
N165	1.15	>
RL22	0.56	>
N160	0.75	>
RL33	0.72	>
RL26	0.38	>
RL17	1.17	>
R 4350	1.24	>
RL16	0.11	>
IMR 7828	1.06	>
IMR 4451	0.15	>
IMR 4831	0.89	>

Select the powder that you are using from the provided list (if available).

If not available, you can try contacting manufacturer or Hornady directly.

Click List to open powder library

Be sure to fill in the temperature at which you were shooting and the MV that was detected using a chronograph.

Temp Sens Factor
Factor   0.37
Base Temp... 75°F
Base MV...2600fps
exit   select
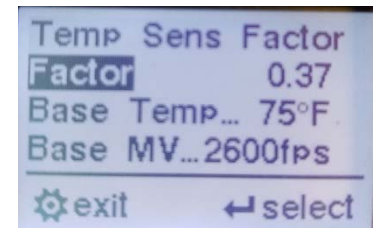
On the Kestrel, this value can be entered or viewed by going to **Gun->MV->MV Temp**