

# Accelerator Pump

Accelerator Pump

MAP & TPS

TPS

Enrichment 5.0 (ms)

Sensitivity 1

Max RPM 3000

Strokes 6

MAP

Enrichment 5.0 (ms)

Sensitivity 3

Max RPM 2000

Strokes 6

## Accelerator pump selection

MAP & TPS

None

MAP

TPS

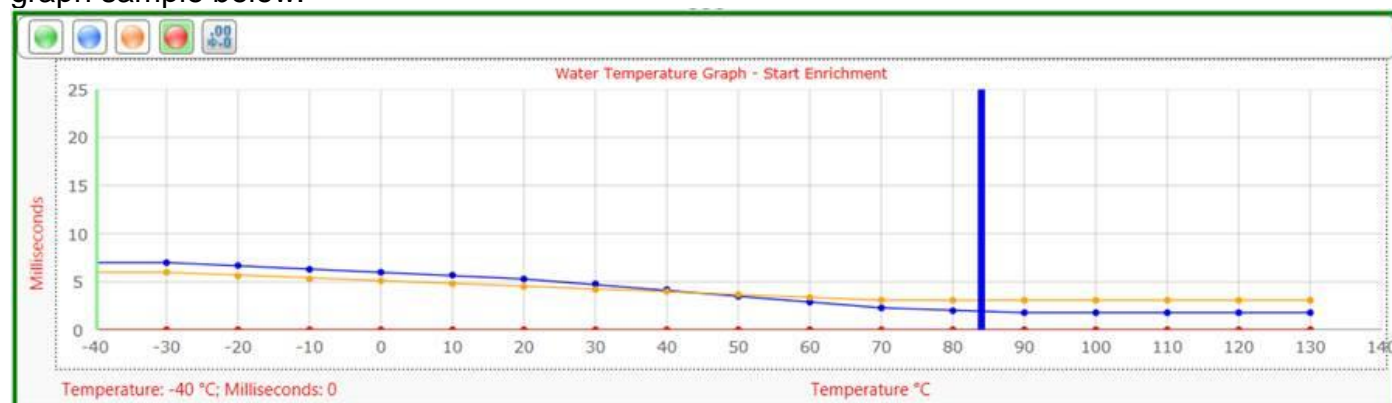
MAP & TPS

The accelerator pump setting is used to richen the fuel mixture when accelerating to avoid flat spots or bog. Here you can select not to use it, use either the TPS or MAP or both signals. Below is the selections to setup each pump for TPS and MAP.

## Enrichment %

Enrichment 5.0 (ms)

This is the amount of fuel that will be added momentarily when the accelerator pump is activated. This value is divided by the number of strokes and each stroke the value is reduced by the division value. It will start with 10 and reduce to zero so that fuel is gradually reduced. This value is also compensated with the water temperature graph value. In **Expert** mode this value for MAP and TPS will be blanked out and the graph value for that temperature interval will be used. See the graph sample below.



## Sensitivity

Sensitivity 1

The activation sensitivity can be adjusted from 1 to 10. The lower the value, the more sensitive the accelerator pump will be. If the accelerator pump is set too sensitive it will activate randomly and cause the vehicle to over fuel. Rather keep the activation sensitivity as high as possible to avoid

this from happening. For the TPS signal this value can be lower as it is more stable than MAP value and it reacts faster.

## **Max RPM**

Max RPM

This is the maximum RPM that the pump settings will be active. At high RPM you do not need an accelerator pump. A standard is 1500 to 3000 RPM for TPS and 1500 to 2200 RPM for MAP. If a value was initiated before this limit was reached it will finish the decay cycle.

## **Strokes**

Strokes

This is the number of engine strokes that the fuel must be applied to and then decayed over the amount of cycles. If it is a 4 cylinder engine, a value of 8 will inject 4 full revolutions of fuel. There are two firing strokes per revolution. If it was a 6 cylinder engine, a value of 12 will inject 4 full revolutions of fuel. Always tune for the lowest value to eliminate flat spots. If a value of example 10 is selected it means that the enrichment amount will be decayed by a tenth every cycle till the tenth stroke.