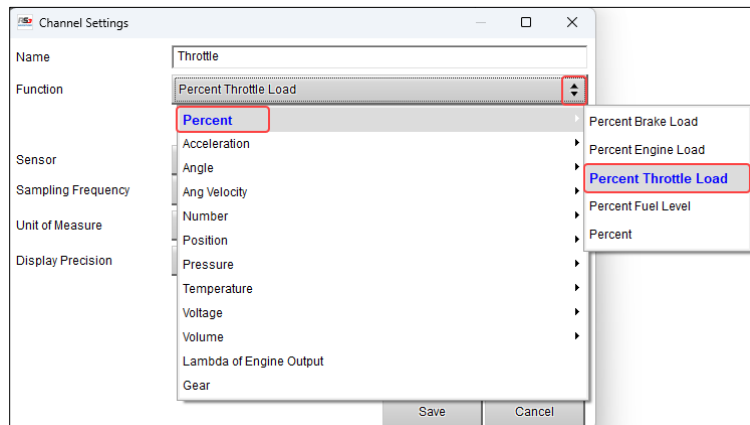




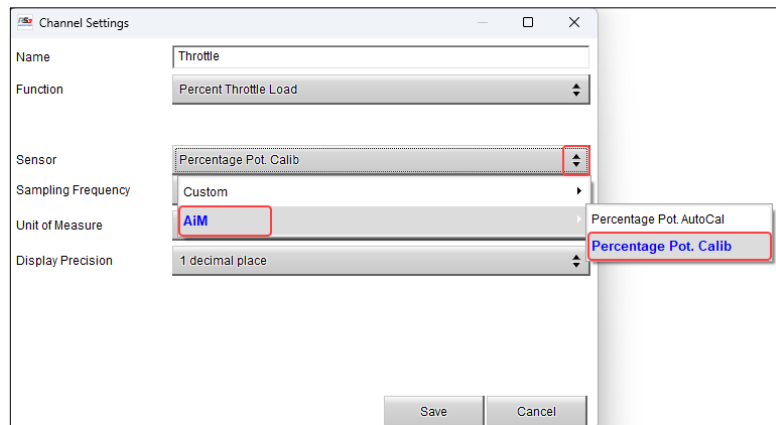
Setting Up and Calibrating a Throttle Position Sensor in Race Studio 3

Select the Analog Channel you have the sensor attached to and name the channel **Throttle**, **TPS**, etc.

Then click on the Function pulldown box. Select **Percent** and then **Percent Throttle Load**



Next click on the Sensor pulldown box. Select **AiM** and then **Percentage Pot. Calib**



Set the Sampling Frequency. I suggest 20 Hz.

The Unit of Measure is % by default and cannot be changed.

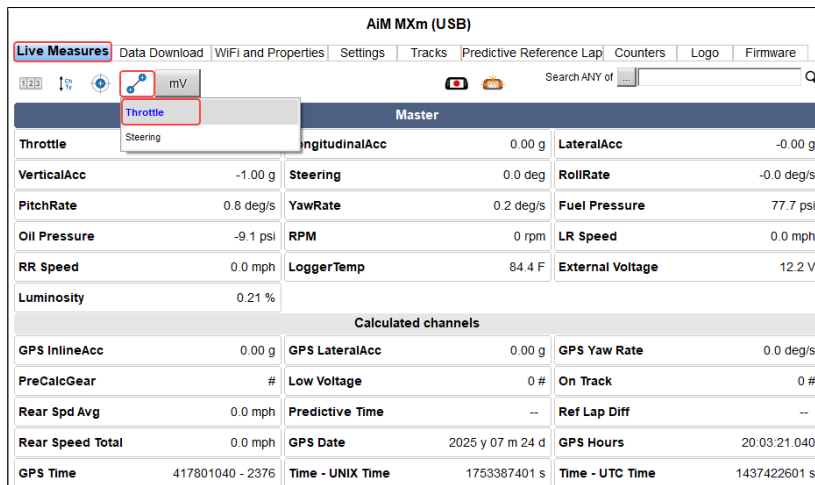
Set the Display Precision. I suggest **no decimal place**.

To finish the Channel settings, click on the **Save** button.

Transmit the configuration to the logger by clicking on the **Transmit** button.



After getting the Channel settings correct and transmitted to the logger, go to **Live Measures** and click on the **Calibrate** button and select the **Throttle** sensor from the list.



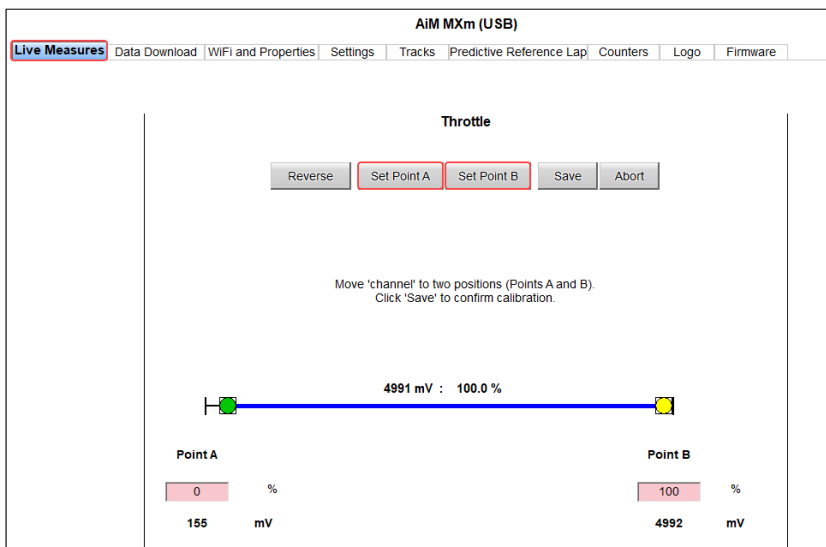
AIM MXm (USB)			
Live Measures			
Data Download WiFi and Properties Settings Tracks Predictive Reference Lap Counters Logo Firmware			
mV			
Throttle			
Master			
Throttle		LongitudinalAcc	0.00 g
VerticalAcc	-1.00 g	Steering	0.0 deg
PitchRate	0.8 deg/s	YawRate	0.2 deg/s
Oil Pressure	-9.1 psi	RPM	0 rpm
RR Speed	0.0 mph	LoggerTemp	84.4 F
Luminosity	0.21 %	External Voltage	12.2 V
Calculated channels			
GPS InlineAcc	0.00 g	GPS LateralAcc	0.00 g
PreCalcGear	#	Low Voltage	0 #
Rear Spd Avg	0.0 mph	Predictive Time	--
Rear Speed Total	0.0 mph	GPS Date	2025 y 07 m 24 d
GPS Time	417801040 - 2376	Time - UNIX Time	1753387401 s

The first thing to do on this screen is set the values you want your throttle position sensor to display and this will be 0 to 100%. I have set Point A to **0%** and Point B to **100%**.

Next you need to make sure the Throttle is at rest mode or 0% and press on the Set Point A button.

Then push the Throttle to full or 100% and press on the Set Point B button.

Then click on the **Save** button.





Then as a final check, while still in the Live Measures function, press on your Throttle pedal and watch the Throttle value on the RS3 screen and check to make sure that the values move from 0 to 100%. Here the throttle pedal was at 66%.

To make this easier to see, I have clicked on the Throttle value in Live Measures function, and it is highlighted and displayed along the right edge of the screen and easier to view specific channels in the Live Measures function.

AiM MXm (USB)

Live Measures

Data Download

WiFi and Properties

Settings

Tracks

Predictive Reference Lap

Counters

Logo

Firmware

1/2/3

mV

Search ANY of

Master		Throttle	
Throttle	66 %	LongitudinalAcc	-0.04 g
LateralAcc	0.02 g	VerticalAcc	-0.97 g
Steering	0 deg	RollRate	-0.1 deg/s
PitchRate	1.0 deg/s	YawRate	0.3 deg/s
Fuel Pressure	77.8 psi	Oil Pressure	-9.1 psi
RPM	0 rpm	LR Speed	0.0 mph
RR Speed	0.0 mph	LoggerTemp	86.6 F
External Voltage	12.2 V	Luminosity	0.17 %
Calculated channels			
GPS InlineAcc	0.00 g	GPS LateralAcc	0.00 g
GPS Yaw Rate	0.0 deg/s	PreCalcGear	#
Low Voltage	0 #	On Track	0 #
Rear Spd Avg	0.0 mph	Predictive Time	--
Ref Lap Diff	--	Rear Speed Total	0.0 mph
GPS Date	2025 y 07 m 24 d	GPS Hours	20:20:17.360
GPS Time	418817360 - 2376	Time - UNIX Time	1753388417 s