

The Mountain Bike Suspension Potentiometer Pop End Fitting Pop Fitting used with Aim data loggers can measure the displacement between two points using a sensor (linear potentiometer) directly connected to the points of measure. This potentiometer can measure linear displacements like:

- dampers compression or extension
- steering rotation measured through the rack displacement

Installation



When installing the sensor:

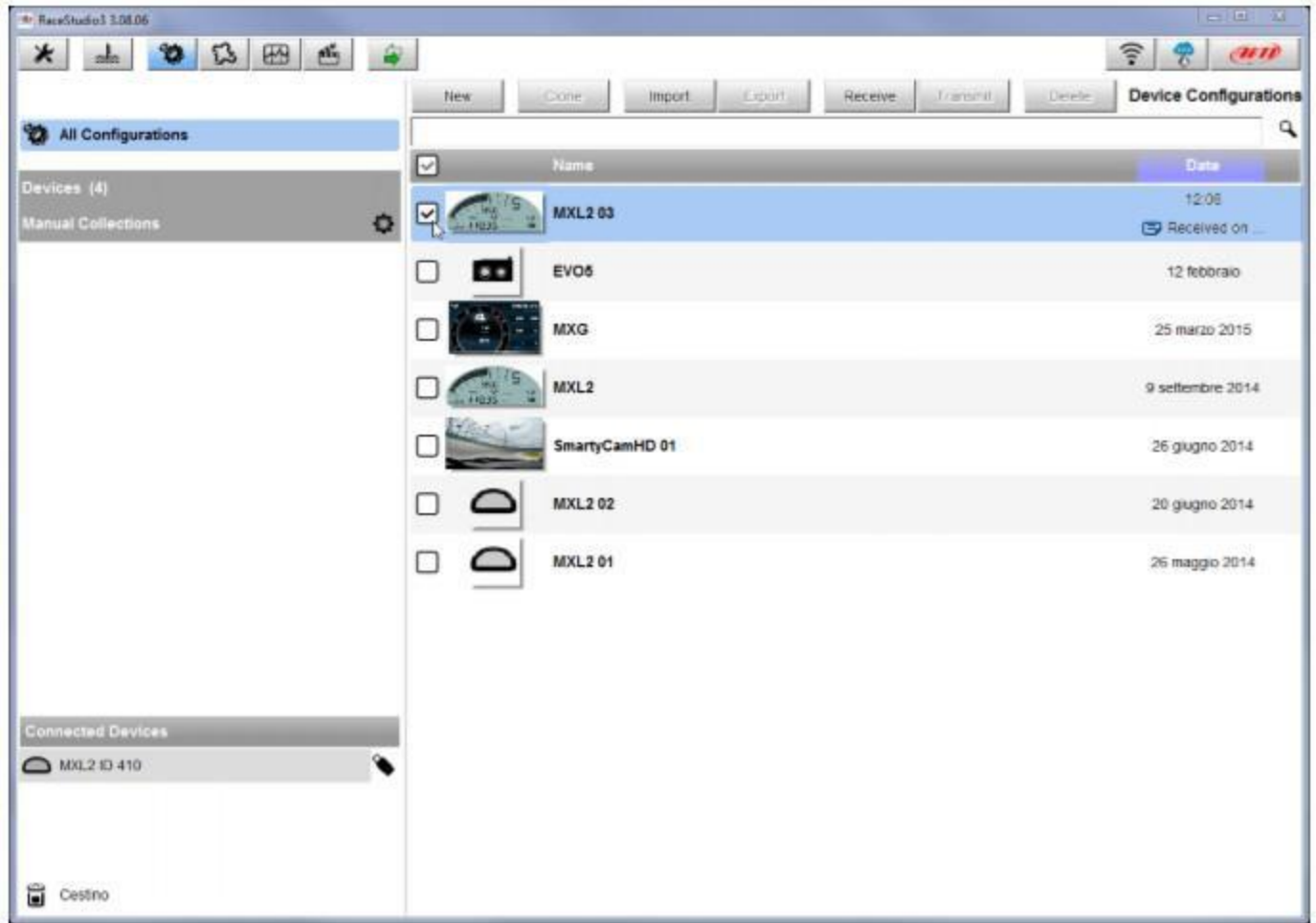
- be very careful avoiding possible bending of the internal cylinder; these bendings, occurring when over tightening the screws or in case of incorrect mounting, can seriously damage the sensor •
- extract the internal cylinder for about 5 mm (0.2 inches) from the sensor lower boundary position.

Please note: do not use this sensor to measure distances beyond the potentiometer maximum travel.

The car/bike linear potentiometer can be connected to any analog channel of AiM loggers.

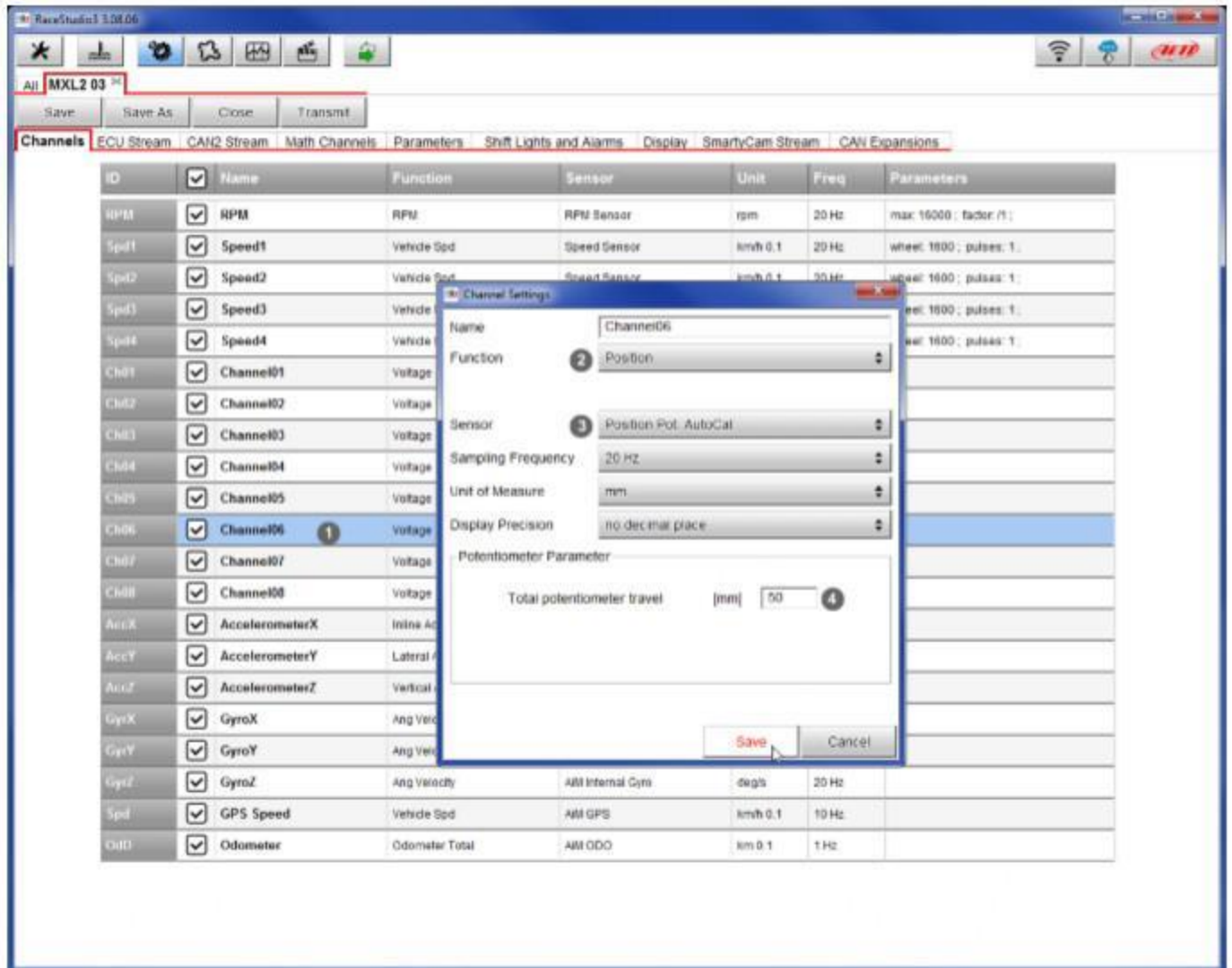
Software setup – Suspensions

To load the potentiometer in the logger configuration run the software and select the configuration you are going to load it on.



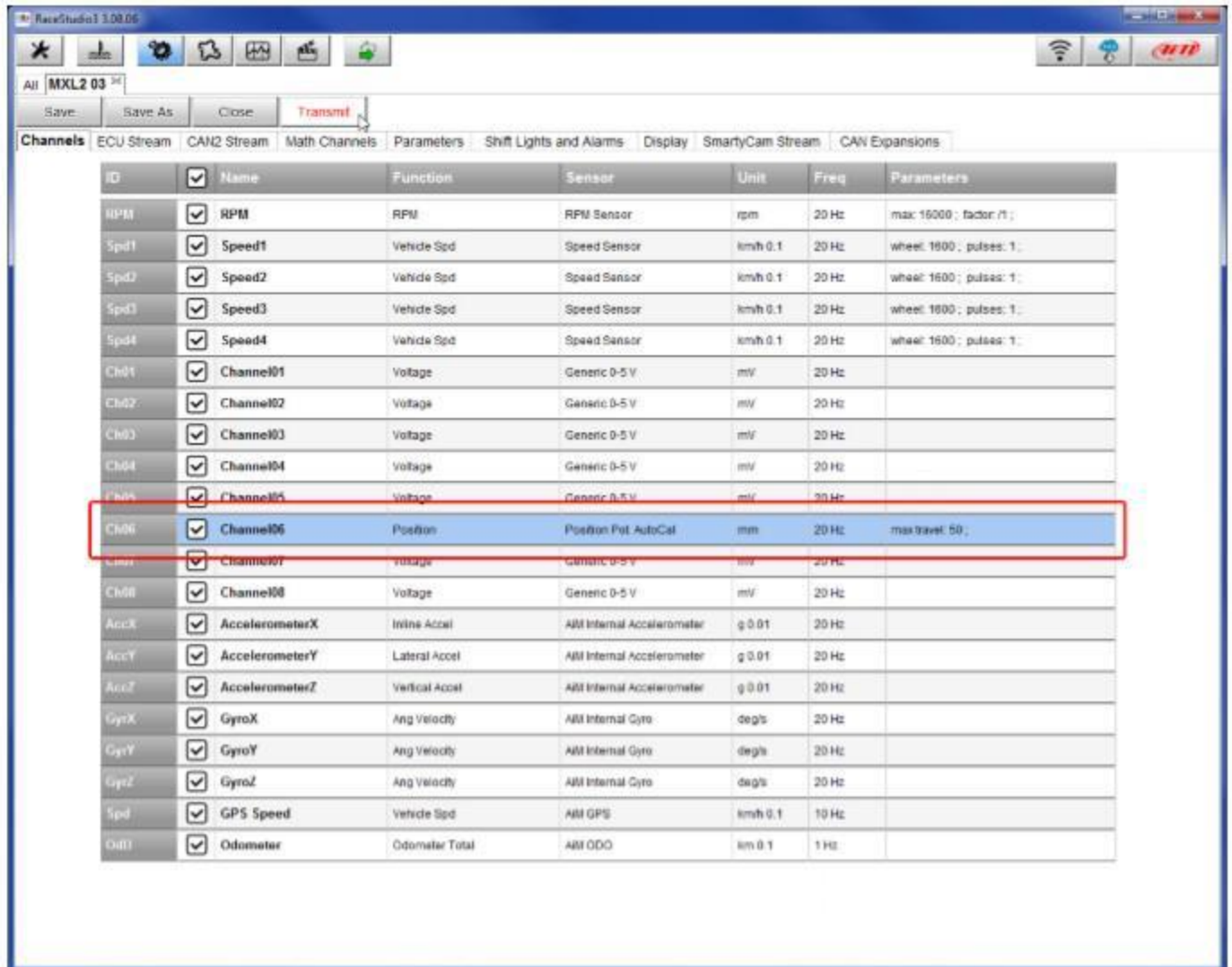
Enter the configuration (in the example MXL2 03) and the related "Channels" layer.

- Select the channel where to set the potentiometer on – in the example channel 6 (1) and fill in the panel that shows up
- Function: "Position" (2)
- Sensor: "Position Pot. AutoCal" (3 – this implies that the potentiometer will be auto-calibrated as shown in the following pages)
- Fill in the other fields
- Fill "Total Potentiometer travel" box with the potentiometer travel in mm – in the example we used a 50mm travel potentiometer (4)
- Click "Save"



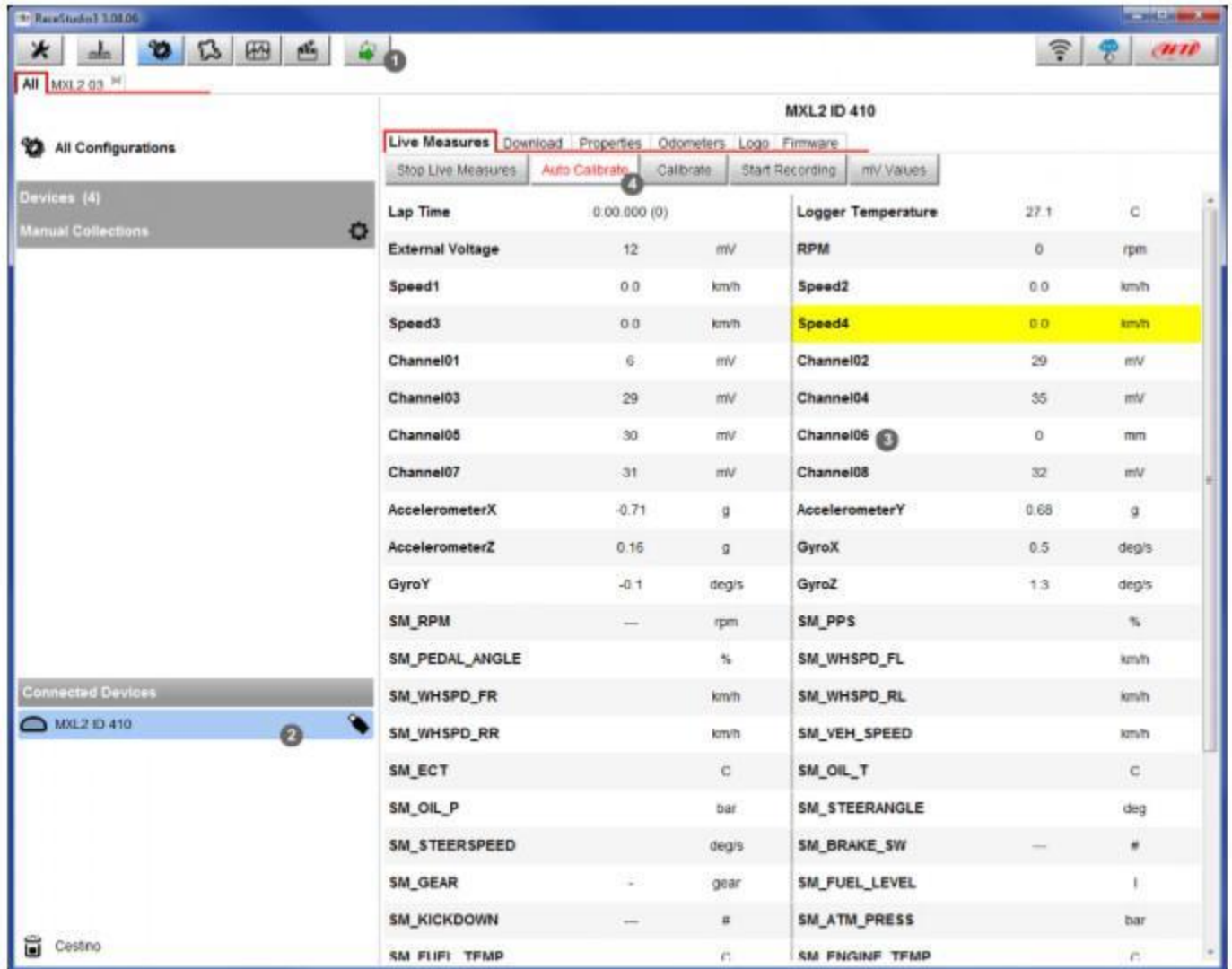
When the software comes back to "Channels" layer the potentiometer has been set on the desired channel as shown here below.

- Transmit the configuration to the logger pressing "Transmit" on the top keyboard



To auto-calibrate the potentiometer:

- enter "All" layer and press "Device" (1)
- select the logger – in the example MXL2 ID 410 (2)
- in "Live Measures" layer, keeping the potentiometer in its zero position, select the channel where the potentiometer has been set – in the example channel 6 (3)
- press "Auto Calibrate" (4)



- Keep the potentiometer in its zero position as shown here below
- Press "Auto calibrate All"

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All MXL2 03

All Configurations

Devices (4)

Manual Collections

Connected Devices

MXL2 ID 410

No devices in view.

Cestino

MXL2 ID 410

Live Measures Download Properties Odometers Logo Firmware

Autocalibrate All Exit

Name	Instant Value
ChannelID	0 mm
AccelerometerX	-0.70 g
AccelerometerY	0.69 g
AccelerometerZ	0.16 g
GyroX	0.2 deg/s
GyroY	-0.1 deg/s
GyroZ	1.3 deg/s