

AiM Infotech

Configuration  
with Race Studio 3 software of  
AiM pressure sensor

Release 1.00

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## 1

# Introduction

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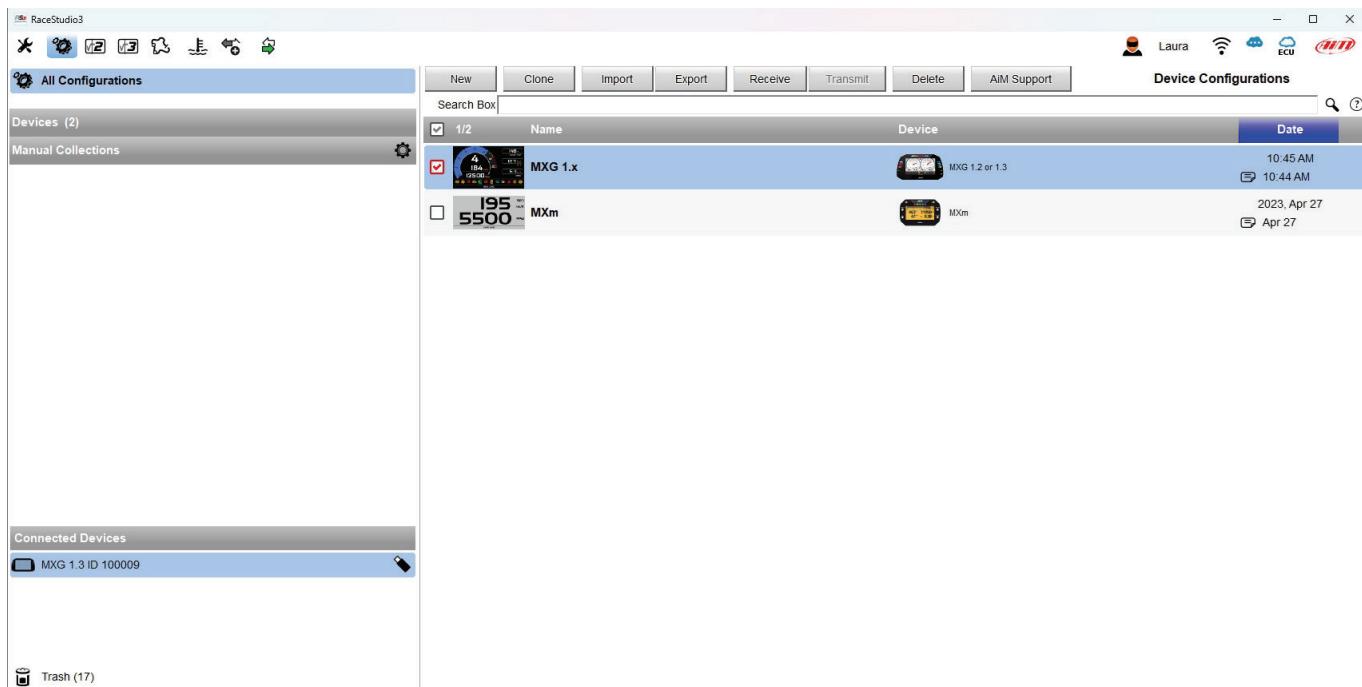
Once the sensor is physically connected to one of the device channels it has to be loaded in the related configuration using AiM **Race Studio 3** configuration software.

## 2

# Setup with Race Studio 3

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To load the sensor in the configuration, keeping the device switched on and connected to the PC, run the software and select the configuration where to load the sensor on (MXG 1.x in the example).



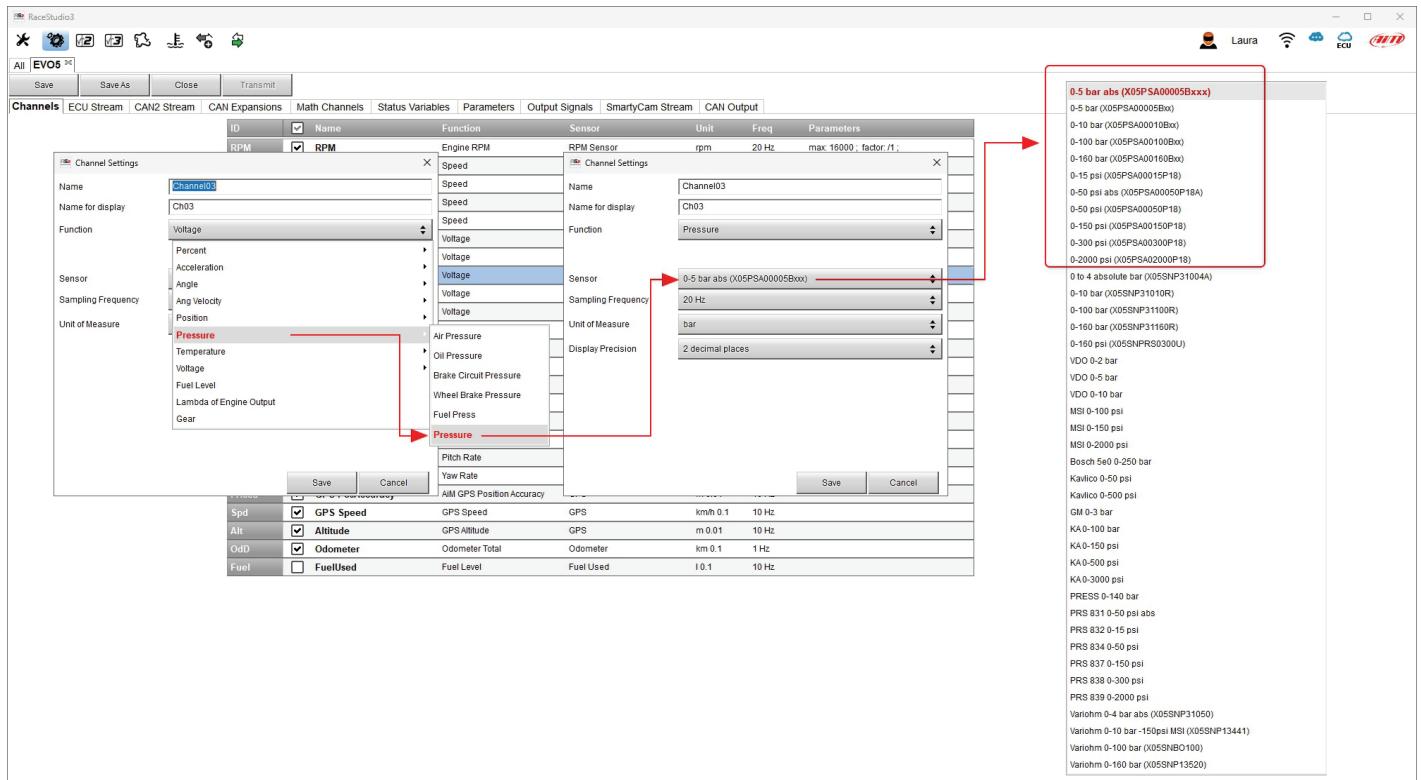
**Please note:** some AiM devices manage the channels only as analog, others also as digital while others can manage channels only if additional needing thereby an optional AiM Channel Expansion.

AiM devices that manage the channels **only as analog** are:

- EVO5
- EVO4S
- MXL2
- MX Strada systems
- MXm

To configure the sensor:

- enter "Channels" tab and click the channel where to load the sensor on
- "Channel settings" panel is prompted: select the function "Pressure" and the pressure type (generic pressure in the example below)
- by default the software sets 0-5 bar abs X05PSA00005Bxxx sensor: click it and select the sensor you connected to AiM device; here below available pressure sensors are in a red box while the table in the last page shows which code to be used for each sensor
- press "Save"

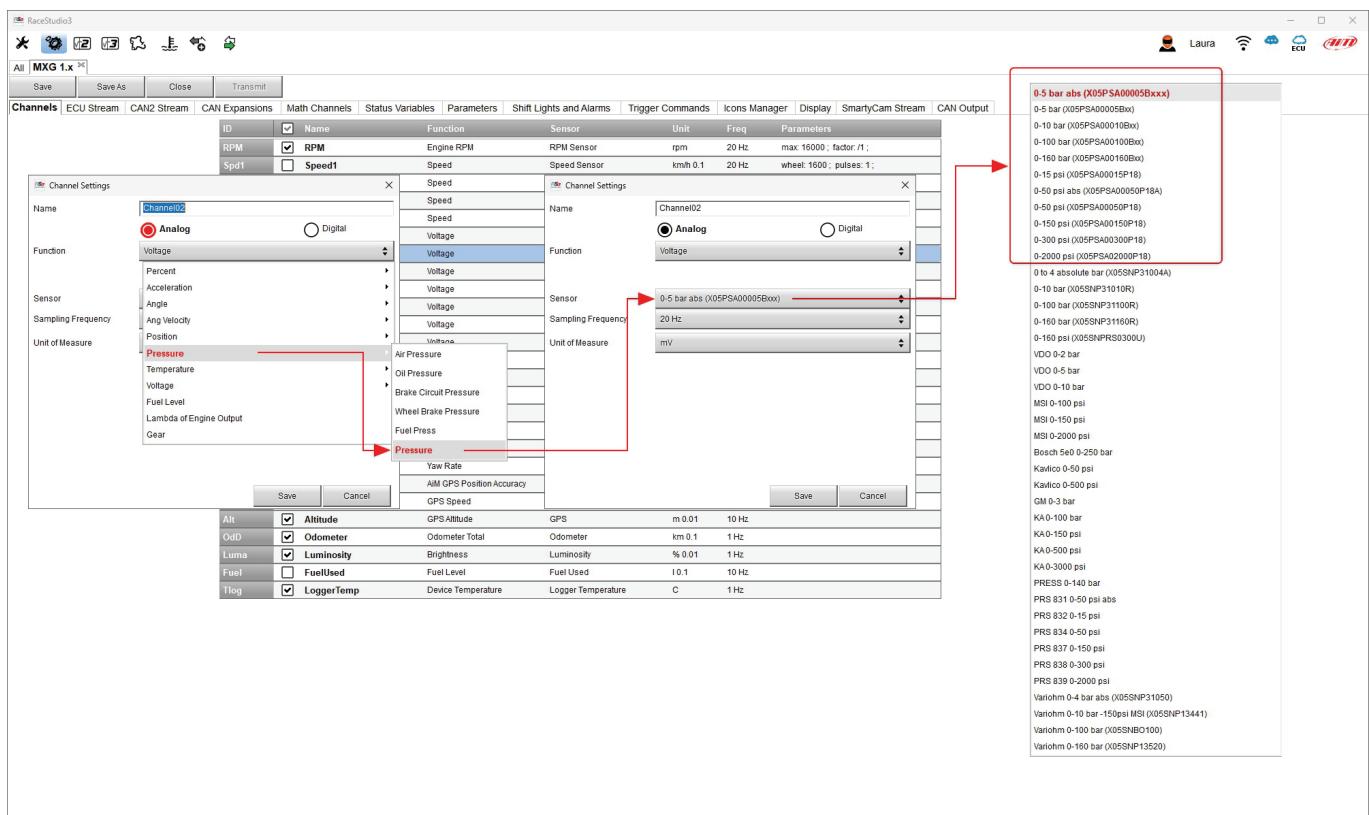


AiM devices that manage the channel both **as analog and as digital** are:

- MX 1.2/1.3 systems (MXP included)
- MX 1.2/1.3 Strada systems (MXP Strada included)
- MX systems
- MX Strada systems
- MXsl

To configure the sensor:

- enter "Channels" tab and click the channel where to load the sensor on
- "Channel settings" panel is prompted: **select "Analog" management**
- select the configuration function "Pressure" and the pressure type (generic pressure in the example below)
- by default the software sets 0-5 bar abs X05PSA00005Bxxx sensor: click it and select the sensor you connected to AiM device; here below available pressure sensors are in a red box while in the last page a table shows which code to be used for each sensor
- press "Save"

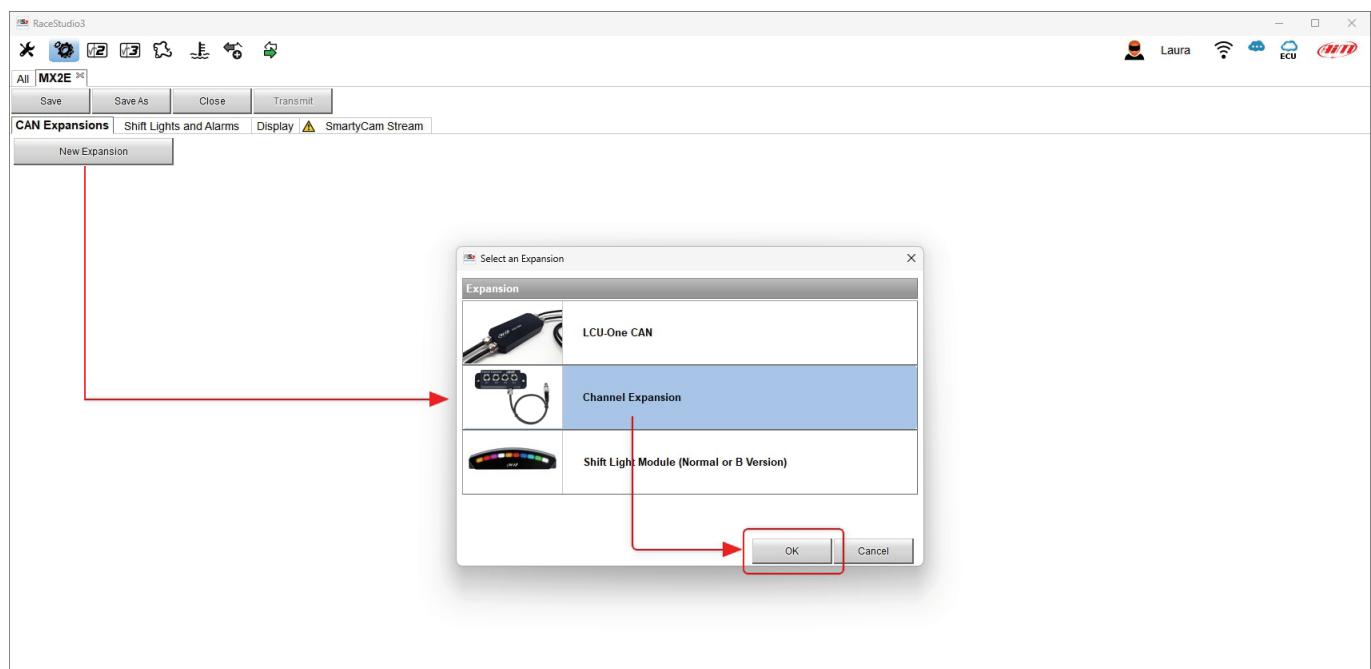


AiM devices that manage the channels **only through an AiM Channel Expansion and thereby as analog or as digital** are:

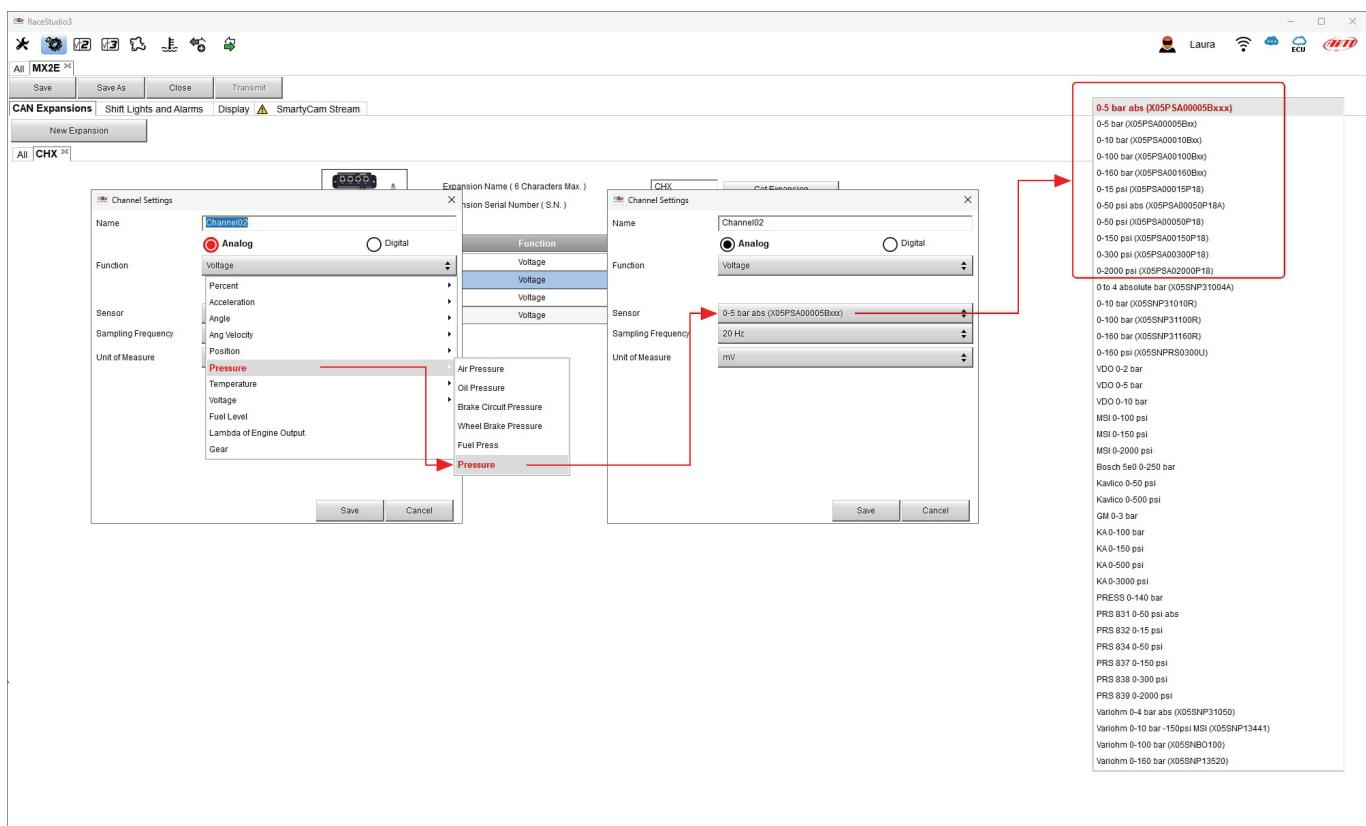
- SW4
- MXK10 Gen4
- MXK10 Gen5
- MX2E

To configure the sensor:

- enter “CAN Expansions” tab and click “New Expansion” button
- select “Channel Expansion” and press “OK”



- once Channel Expansion loaded the related setting tab is prompted: click the channel where to load the sensor on
- "Channel settings" panel is prompted: **select "Analog" management**
- select the configuration function "Pressure" and the pressure type (generic pressure in the example below)
- by default the software sets 0-5 bar abs X05PSA00005Bxxx sensor: click it and select the sensor you connected to AiM device; here below available pressure sensors are in a red box while in the last page a table shows which code to be used for each sensor
- press "Save"





The table below shows which code to select for each pressure sensor when loading it in the device configuration using Race Studio 3 software.

Pressure range	Thread	Race Studio 3 Sensor code
0-5 bar	All threads	X05PSA00005Bxx
0-5 bar absolute	All threads	X05PSA00005Bxx
0-10 bar	All threads	X05PSA00010Bxx
0-100 bar	All threads	X05PSA00100Bxx
0-160 bar	All threads	X05PSA00160Bxx
0-15 PSI	All threads	X05PSA00015P18
0-50 PSI	All threads	X05PSA00050P18
0-50 PSI absolute	All threads	X05PSA00050P18A
0-150 PSI	All threads	X05PSA00150P18
0-300 PSI	All threads	X05PSA00300P18
0-2000 PSI	All threads	X05PSA02000P18