AiM Infotech

0-150 PSI
0-10 Bar
Pressure sensor

Release 1.03

This datasheet explains how to use 0-150 PSI (0-10 Bar) pressure sensor.

This sensor **part number** is: **X05SNP13441**

1 Introduction

AiM devices can measure pressure with a proper sensor that needs an accurate installation. This is why we would strongly suggest you to address to a specialized workshop. Once the sensor installed you have to configure it using AiM Race Studio 2 software freely downloadable from Download Area –> software section of www.aim-sportline.com.

2 Suggested installations

This sensor fits pressure measurement of liquid like oil, water or fuel. We recommend not to use it for brake pressure measurement.

2.1 Installation notes

When installing the sensor ensure to select a channel that has a +Vb output on your AiM device or harness. To say:

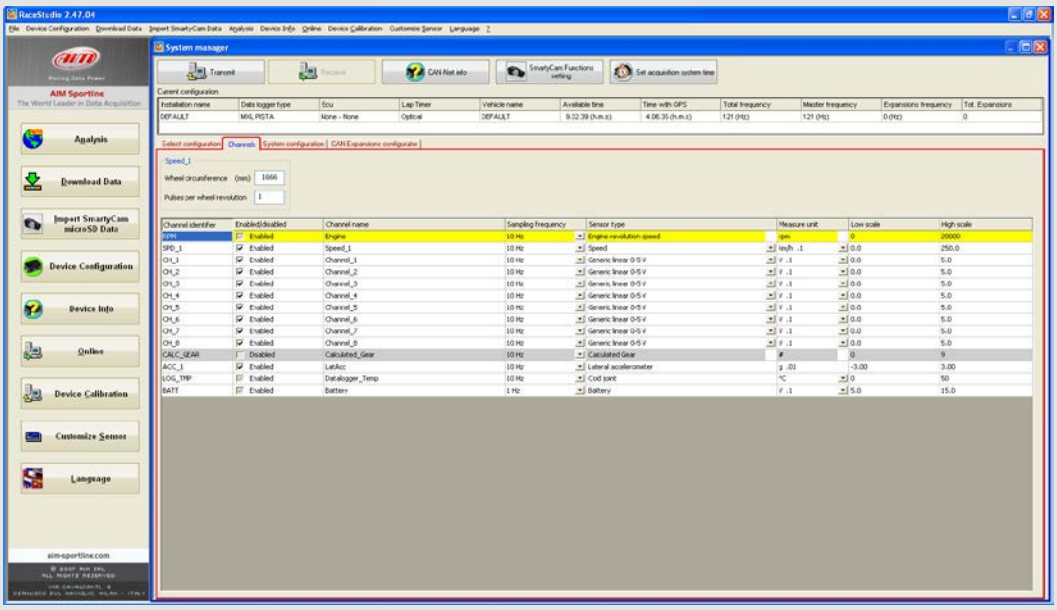
- EVO4: all channels from 1 to 5
- MXL Strada: channels from 4 to 8 if you are using an AiM optional harness – part number **V02.554.20**
- MXL Pista: channels from 4 to 8 if you are using an AiM standard harness – part number **V02.554.20**
- MXL Pro05: channels from 8 to 11 if you are using an AiM optional harness – part number **V02.554.02**
- MyChron Expansion: all channels from 1 to 4
- Channel Expansion: all channels from 1 to 4

3
Sensor configuration for AiM devices

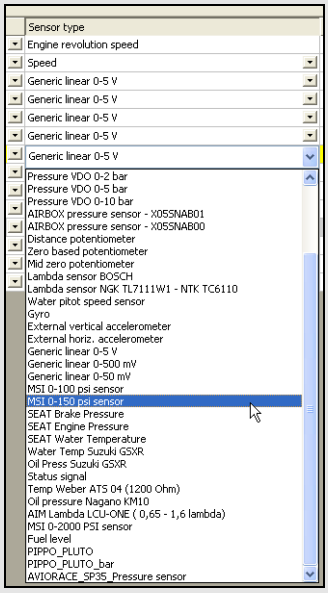
To make AiM devices sampling information supplied by the sensor it is necessary to physically connect the sensor to a channel, set in Race Studio 2 configuration software the channel this sensor is connected to and transmit the configuration to the system.

The procedure to perform is:

- open Race Studio 2 software;
- select the device you are using;
- select the configuration you want to set the sensor on or create a new one pressing “New”;
- select “Channels” layer shown here below;

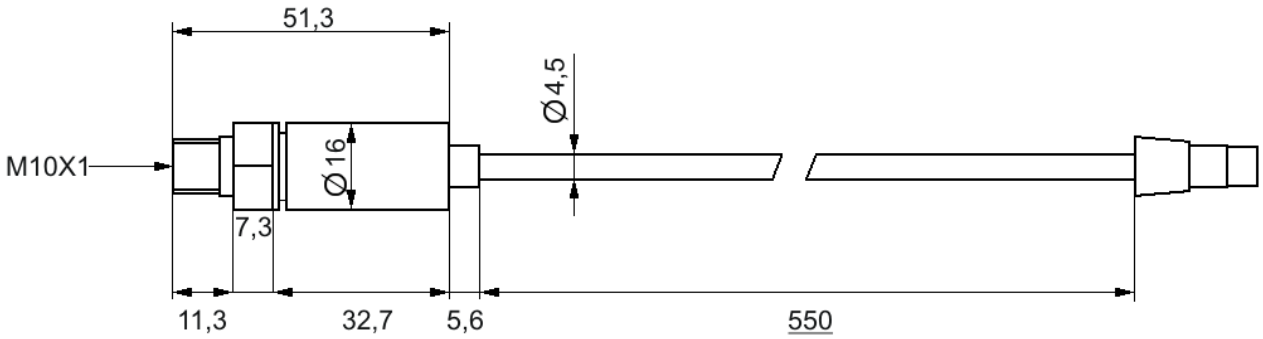


- set this sensor – identified as “MSI 0-150 psi sensor” – selecting it in “Sensor type” column shown below and press “Transmit” button on top of the window.

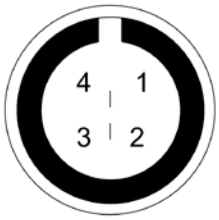


4
Dimensions, pinout and technical characteristics

The drawing here below shows sensor dimensions in millimetres.



The sensor ends with a 4 pins Binder 719 male connector. The image here below shows the connector from solder termination view and its pinout.



Binder connector pin	Function	Cable colour
1	Pressure signal 1-5V	White
2	GND	Black
3	Power 10-30V	Red
4	Not connected	–

0-150 PSI (0-10 Bar) pressure sensor has these technical characteristics:

- measure range: 0-150 PSI (0-10Bar)
- output signal: 1-5 V
- power: 10-30 V
- consumption: 2 mA
- installation thread: M10x1

4
Extension cables

The sensor is sold with a 60 cm cable and standard lengths extension cables are available as optional: 0,5 m, 1m e 1,5 m; it is also possible to ask for specific length extension cables.

Extension cables part numbers change according to their length and to the device the sensor is to be connected to.

Extension cable for connection with:
- Channel Expansion
- MyChron Expansion
- EVO4.

Part numbers:
V02PCB05BTXG – cable length: 500mm
V02PCB10BTXG – cable length: 1000mm
V02PCB15BTXG – cable length: 1500mm
V02PCB20BTXG – cable length: 2000mm
V02PCB25BTXG – cable length: 2500mm
V02PCB30BTXG – cable length: 3000mm

Extension cable for connection with:
- MXL Strada
- MXL Pista
- MXL Pro05

Part numbers:
V02PCB05B – cable length: 500mm
V02PCB10B – cable length: 1000mm
V02PCB15B – cable length: 1500mm
V02PCB20B – cable length: 2000mm
V02PCB25B – cable length: 2500mm
V02PCB30B – cable length: 3000mm