AiM Infotech

PT100 thermo resistor
Race Studio 3 configuration

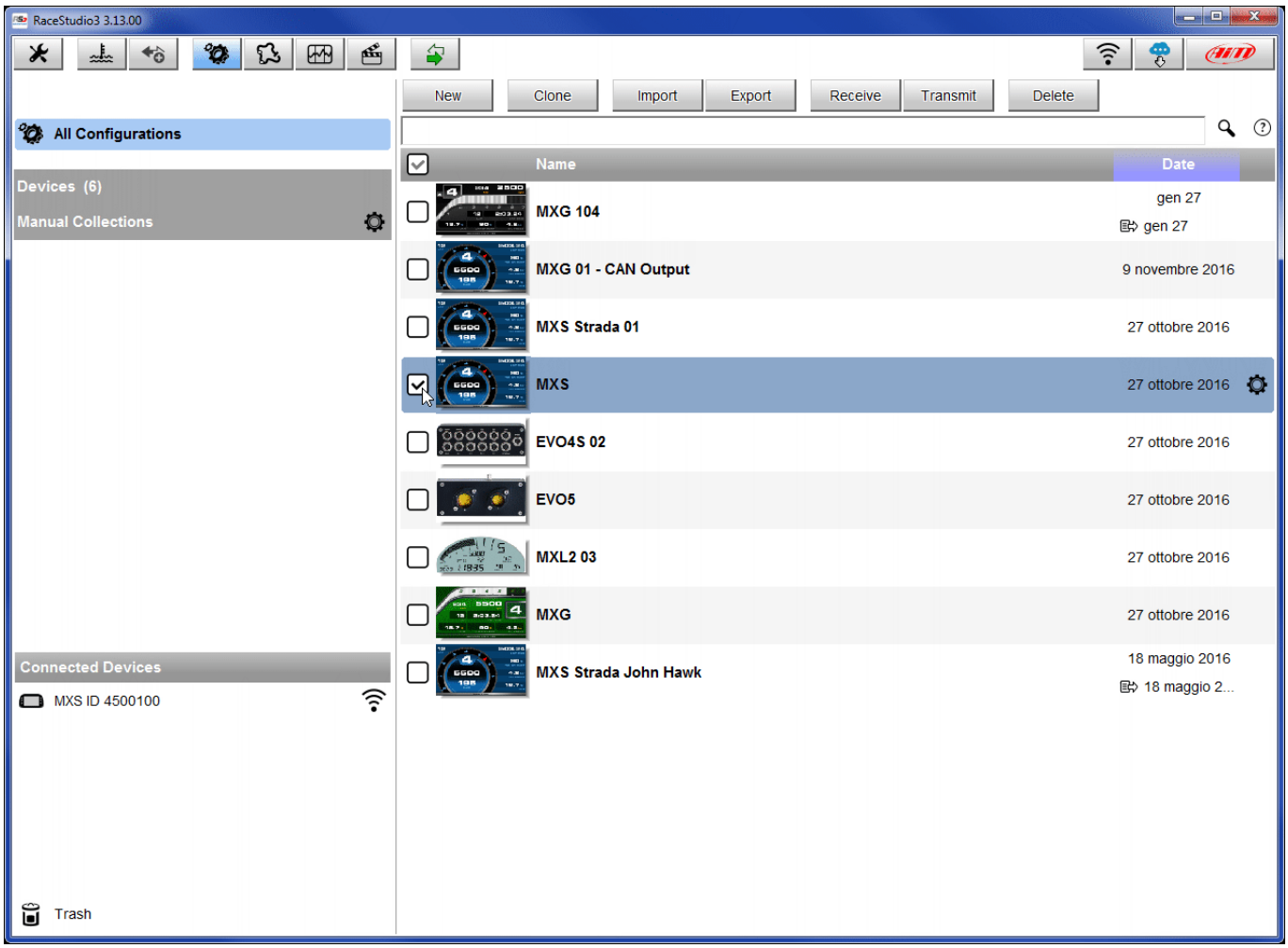
Release 1.00

1 Introduction

This datasheet explains how to configure PT100 thermo resistor for car/bike installation using AiM Race Studio 3 software.

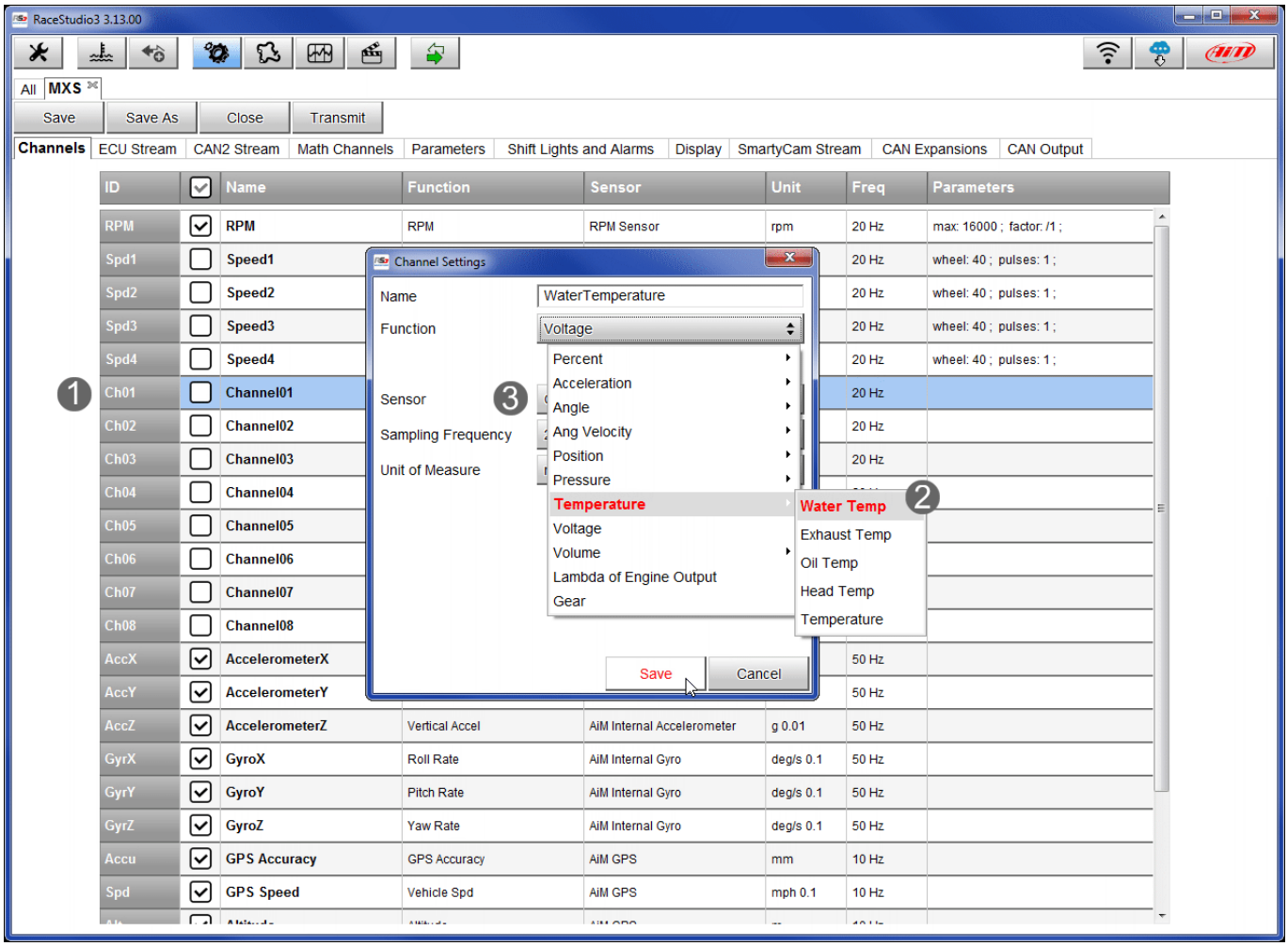
2 Race Studio 3 configuration

To load the sensor in the device configuration run the software and select the configuration where the sensor is to be loaded (in the example MXS).

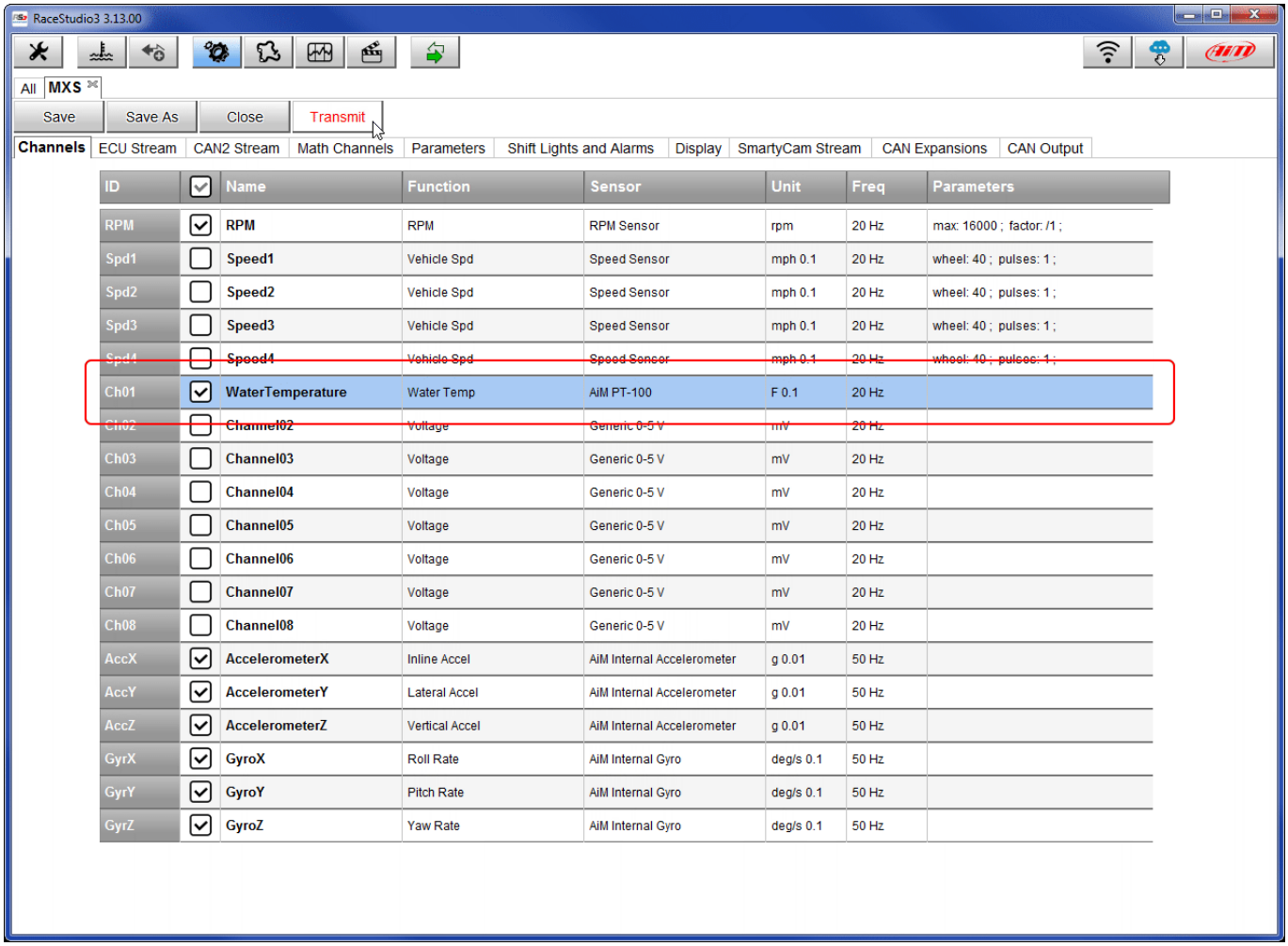


The software enters "Channels" layer

- select the channel where to set the sensor on – in the example channel 1 (**1**) –and fill in the panel that shows up
- select the function "Temperature" and choose among
    - Water Temp – as in the example (**2**)
    - Exhaust Temp
    - Oil Temp
    - Head Temp
    - Temperature (other temperature measurement)
- select sensor type pressing "Sensor" (**3**): "AiM PT-100"
- press "Save"



The software shows the sensor correctly set. In the example below the sensor has been set on Channel1.
Transmit the configuration to the logger pressing "Transmit".



ID		Name	Function	Sensor	Unit	Freq	Parameters
RPM	☑	RPM	RPM	RPM Sensor	rpm	20 Hz	max: 16000 ; factor: /1 ;
Spd1	☐	Speed1	Vehicle Spd	Speed Sensor	mph 0.1	20 Hz	wheel: 40 ; pulses: 1 ;
Spd2	☐	Speed2	Vehicle Spd	Speed Sensor	mph 0.1	20 Hz	wheel: 40 ; pulses: 1 ;
Spd3	☐	Speed3	Vehicle Spd	Speed Sensor	mph 0.1	20 Hz	wheel: 40 ; pulses: 1 ;
Spd4	☐	Speed4	Vehicle Spd	Speed Sensor	mph 0.1	20 Hz	wheel: 40 ; pulses: 1 ;
Ch01	☑	WaterTemperature	Water Temp	AiM PT-100	F 0.1	20 Hz	
Ch02	☐	Channel02	Voltage	Generic 0-5 V	mV	20 Hz	
Ch03	☐	Channel03	Voltage	Generic 0-5 V	mV	20 Hz	
Ch04	☐	Channel04	Voltage	Generic 0-5 V	mV	20 Hz	
Ch05	☐	Channel05	Voltage	Generic 0-5 V	mV	20 Hz	
Ch06	☐	Channel06	Voltage	Generic 0-5 V	mV	20 Hz	
Ch07	☐	Channel07	Voltage	Generic 0-5 V	mV	20 Hz	
Ch08	☐	Channel08	Voltage	Generic 0-5 V	mV	20 Hz	
AccX	☑	AccelerometerX	Inline Accel	AiM Internal Accelerometer	g 0.01	50 Hz	
AccY	☑	AccelerometerY	Lateral Accel	AiM Internal Accelerometer	g 0.01	50 Hz	
AccZ	☑	AccelerometerZ	Vertical Accel	AiM Internal Accelerometer	g 0.01	50 Hz	
GyrX	☑	GyroX	Roll Rate	AiM Internal Gyro	deg/s 0.1	50 Hz	
GyrY	☑	GyroY	Pitch Rate	AiM Internal Gyro	deg/s 0.1	50 Hz	
GyrZ	☑	GyroZ	Yaw Rate	AiM Internal Gyro	deg/s 0.1	50 Hz	