

#### RS3

# Online measure value forcing

## **Question:**

How can I verify that my device alarms/icons are correctly configured, even if I cannot test them directly on my vehicle?

## Answer:

Starting from Race Studio 3 release **3.23.08**, it is possible to force each channel value, to be able to simulate its real behavior (even without installing it on your vehicle), following the steps below:

#### N.B.:

- This feature is available for MXG 1.2, MXS 1.2, MXS 1.2 Strada, MXm, Solo 2 DL starting from firmware version 02.24.04 onwards.
- It is possible to force the channels values only if the Online view is enabled ("Start Live Measures" button).
- It is possible to force the value of each displayed channel into the Live Measures tab except for calculated channels.
- It is possible to manually force both positive and negative values.
- Check the WiFi settings and the Start Data Recording conditions; the Auto WiFi will stop the connection when the unit starts logging data.
- Once the system has been connected to Race Studio 3 via Wi-Fi or USB, enter the Live Measures tab (Connected Device menu): by default, the Online measures view is enabled.

MXm ID 6500112		Master							
	-								
	InlineAcc	-0.08 g	PitchRate	0.2 deg/s	Logger Temperature	157.4 C	Channel04	-0.033 V	
	LateralAcc	0.18 g	YawRate	0.6 deg/s	Channel01	-0.033 V	External Voltage	12.3 V	
	VerticalAcc	-0.99 g	Speed1	0.0 km/h	Channel02	-0.033 V	Luminosity	0 %	
	RollRate	-0.2 deg/s	Speed2	0.0 km/h	Channel03	-0.032 V			
		ECU channels							
	OMEX TPS	%	OMEX MAPASLOAD	bar	OMEXECT	C	OMEX LAMBDA1	λ	
	OMEX SPARK TOT	deg	OMEX RPM	rpm	OMEX FUEL1 PW	ms	OMEX LAMBDA2	λ	
	OMEX AIR PRESS	bar	OMEX IAT	C	OMEX BATT VOLT	v	OMEX LAMBDATAR	λ	
	Calculated channels								
	Lap Time	0:00.000 (0)	iGPS (GPS Good)	0,4					



• At the pointer passing, in each channel box a gear icon appears: clicking it, it is possible to set the channel measure unit, the displayed decimal figures and force the channel value. A popup window appears, which allows to manually insert the new value. Clicking "OK", the channel will be surrounded by a red frame (all the forced channels will), assuming the wanted value.

RaceStudio3 3.23.12									-	o ×
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😔 Utilities	MXm ID 6500112									
	Ive Measures Download WiFi and Properties Settings Tracks Counters Logo Firmware Device Explorer									
Connected Devices	Stop Live Measures So	orted by Channel Type Auto	Calibrate mV Values						Start Recording	Blink
MXm ID 6500112				M	aster					
	InlineAcc	-0.09 g	PitchRate	0.2 deg/s	Logger Temperat	ure	157.5 C	Channel04		-0.033 V
	LateralAcc 0.18 g		YawRate	0.6 deg/s	0.6 deg/s Channel01		-0.033 V	External Voltage		12.3 V
	VerticalAcc	-0.98 g	Speed1	0.0 km/h	Channel02		-0.033 V	Luminosity		0 %
	RollRate	-0.1 deg/s	Speed2	0.0 km/h	Channel03		-0.033 V			
				ECU	hannels	(B) Channachan		~	1	
	OMEX TPS	%	OMEX MAPASLOAD	bar	OMEX ECT	Choose value		^		λ
	OMEX SPARK TOT	deg	OMEX RPM	rpm	OMEX FUEL1 P	OMEX IAT	Insert a	(signed 16 bit) value		٨
OMEX AIR PRESS		bar	OMEX IAT		C 😳 OMEX BATT VO. 99					λ
				Switch to F	iels 🛛					
	Lap Time	0:00.000 (0)	iGPS (GPS Good)	0 decimal places						
				Force Channel	Value		OK	Cancel		
				L					•	

• If the channel window is clicked, it will be highlighted in yellow and it will appear into a dedicated column on the right: the forced value can be changed pressing "+" and "-".

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Connected Devices	Stop Live Measures	Sorted by Channel Type	es Settings Tracks	mV Values Stop Forcing	e Device Explorer				Start Recording	Blink
MXm ID 6500112		Master								+
									99.0 C	-
	InlineAcc	-0.08 g	PitchRate	0.1 deg/s	Logger Temperat	157.4 C	Channel04	-0.031 V		
	LateralAcc	0.18 g	YawRate	0.6 deg/s	Channel01	-0.034 V	External Voltage	12.3 V		
	VerticalAcc	-0.99 g	Speed1	0.0 km/h	Channel02	-0.033 V	Luminosity	0 %		
	RollRate	-0.1 deg/s	Speed2	0.0 km/h	Channel03	-0.033 V				
		ECU channels								
	OMEX TPS	%	OMEX MAPASLO	bar	OMEX ECT	C	OMEX LAMBDA1	λ		
	OMEX SPARK TOT	deg	OMEX RPM	rpm	OMEX FUEL1 PW	ms	OMEX LAMBDA2	λ		
	OMEX AIR PRESS	bar	ΟΜΕΧ ΙΑΤ	99.0 C	OMEX BATT VOLT	v	OMEX LAMBDAT	λ		
	Calculated channels									
	Lap Time	0:00.000 (0)	iGPS (GPS Good)	0,5						



• Once the correct device functioning will be verified, clicking on the gear icon, it is possible to change the channel value again (Change Channel Value) or return to the real value (Stop Forcing Channel Values).

If two or more channels values are forced, it is possible to reset all of them clicking "Stop Forcing" (this button is enabled at the first value forcing).

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₽ Utilities	MXm ID 6500112									
Connected Devices	Live Measures Download	WiFi and Propert	ies Settings Track	S Counters Logo Firmwar	e Device Explorer				Clark Deserving	Dlink
	Stop Live Measures So	ned by Channel Type	e Auto Calibrate	mv values Stop Forcing					Start Recording	BIINK
				Ma	ster				OMEX IAT	+
									99.0 C	•
	InlineAcc	-0.09 g	PitchRate	0.2 deg/s	Logger Temperat	157.5 C	Channel04	-0.032 V		
	LateralAcc	0.18 g	YawRate	0.7 deg/s	Channel01	-0.033 V	External Voltage	12.2 V		
	VerticalAcc	-0.98 g	Speed1	0.0 km/h	Channel02	-0.034 V	Luminosity	0 %		
	RollRate	-0.1 deg/s	Speed2	0.0 km/h	Channel03	-0.033 V				
		ECU channels								
	OMEX TPS	%	OMEX MAPASLO	bar	OMEX ECT	C	OMEX LAMBDA1	λ		
	OMEX SPARK TOT	deg	OMEX RPM	rpm	OMEX FUEL1 PW	ms	OMEX LAMBDA2	λ		
	OMEX AIR PRESS	bar	OMEX IAT	99.0 C 🚺	OMEX BATT VOLT	v	OMEX LAMBDAT	λ		
				Change Channel Value	d channels					
	Lap Time	0:00.000 (0)	iGPS (GPS Good)	Stop Forcing Channel Values						