

Script.Serial.SIGHIR_ETHYLOMETER_NO_MT.v1.0.0.0

SIGHIR ETHYLOMETER Serial Script – No Maneuver Timer



Overview

This script has been developed to control and collect information from an ethylometer, also popularly known as breathalyzer (electronic device that analyzes a person's breath to determine their blood alcohol concentration). The device is installed in the vehicle. Depending on the readings, the MiX OBC should release or block the vehicle (using the immobilizer relay).

The script has been developed for the breathalyzer developed by SIGHIR. This new version is a new branch variation, meaning that it will have a distinct development from the version Script.Serial.SIGHIR_ETHYLOMETER.v1.0.0.0

Main difference is that the new script no longer controls some operations process timers (activation and maneuver timers) which are now controlled by the breathalyzer itself.

Please note that this script can only function when used along with a valid CAN script to read RPM.

This script can be used with the following devices:

1. MiX 4000
2. MiX 6000
3. FM3316 and FM3306 Communicators
4. FM3517i and FM3507i Communicators
5. FM3617i and FM3607i Communicators
6. FM3717i and FM3707i Communicators
7. FM3817i and FM3807i Communicators

Version History

Reference	Version	Changes
<u>ESCR-132</u>	v1.0.0.0	<p>The script has been developed for the breathalyzer developed by SIGHIR.</p> <p>This new version is a new branch variation , meaning that it will have a distinct development from the version Script.Serial.SIGHIR_ETHYLOMETER.v1.0.0.0</p>

Supported Parameters

ACRONYM	PARAMETER NAME	PARAMETER DESCRIPTION	Return values/states (if applicable)
UFRJA	UFRJ Activation Status	Information about the activation (start of test)	0 - Not Activated 1 - Activation Attempt 2 - Activation Successful
UFRJB	UFRJ Block Status	Information about if the vehicle has been blocked or not	00 = Block Status not received yet 01 = Unblock 02 = Block 03 = Block due to alcohol level 04 = Block due to timeout
UFRJC	UFRJ Communication Status	Indicates if there is active communication between the MiX OBC and the Etilometer	0 - Not Active 1 - Active
UFRJL	UFRJ Event Log	Log information reported by the device	01 = Vehicle unblocked 02 = Vehicle blocked 03 = Ignition ON (first stage) 04 = Engine Off 05 = device has been blown 06 = Code supplied 07 = Settings have been updated 08 = Device has been reset 09 = Sensor has rebooted 10 = firmware updated 11 = blow timeout has been reached 12 = Random test warning 13 = keep alive sent 14 = Case tampering 15 = Sensor Reading delayed 16 = Reading performed 17 = keep alive received 18 = external output set to ON
UFRJH	UFRJ Alcohol Concentration	Amount of alcohol in mg/L	

Installation Notes

1. Direct connection between SIGHIR and OBC using the serial interface (DB9)
2. Any device connected to the serial interface must be configured to:
 - Baud Rate: 115200
 - Byte Length: 8 bits
 - Flow Control: None
 - Parity: None
 - Stop Bits: 1 bit