Script.CAN.EV.SWITCH.METROCITY.ACK_ENBL.v1.2.0.1_MG

SWITCH METROCITY 2023 CAN Script

The compatibility if this script can only be guaranteed for:

1. SWITCH METROCITY 2023 model.

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
SCR-2383	v1.0.0.0	This script supports the standard system Parameters: ECMST, Speed, RPM, High resolution odometer, Accelerator Pedal Position, Brake Pedal Position, Park Brake State, Door Positions, Gear Box Drive Mode, Ambient Air Temperature, Inner Temperature, Charging status (is vehicle charging), Charging gun status (connected or not), State of Charge. **The script should be compatible with vehicles with:** **SWITCH METROCITY**
SCR-2509	v1.1.0.0	Remap of EV CAN: Charging status return states.
SCR-2704	v1.2.0.1	Added Battery voltage and current. Added power and energy parameters.

Supported Parameters

ACRONYM	PARAMETER NAME	PARAMETER DESCRIPTION	Return values/states (if applicable)
CANV2	CAN.CANV2	CANV2 - Wheel based speed	
CAN_N	System.Scratch40C	Engine RPM	
HRESD	FMS.HRESD	FMS High resolution odometer	
FMAPP	FMS.FMAPP	FMS Accelerator Pedal Position	
FMSPP	FMS.FMSPP	FMS Brake Pedal Position	
PBRKS	System.FM.CAN.PBRKS	FM CAN: Park Brake State	0 = Not Available 1 = Disengaged 2 = Engaged
DOORS	CAN.DOORS	Bus Door Position Status	0 = At least 1 door is open 1 = Closing last door 2 = All doors closed 3 to 13 = Not defined 14 = Error 15 = not available
GBDRM	System.FM.CAN.GBDRM	FM CAN: Gear Box Drive Mode	1 = Drive 2 = Neutral 4 = Reverse
AMBAT	System.FM.CAN.AMBAT	FM CAN: Ambient Air Temperature	
INTMP	System.FM.CAN.INTMP	FM CAN: Inner Temperature	
EVICS	System.FM.CAN.EVICS	EV CAN: Charging status	-1 = Initialisation 0 = Not Charging 1 = Charging 3 = Equalising 4 = Float Charge 100 = Error
CHGST	System.FM.CAN.CHGST	EV CAN: Charging Gun Status	0 = Not Connected 1 = Connected 2 = Error
EBSOC	System.FM.CAN.EBSOC	EV CAN: State of charge	0 - 100%
TNETE	System.FM.CAN.TNETE	EV CAN: Trip net energy usage	

EBOEN	System.FM.CAN.EBOEN	EV CAN: Battery current discharge power	
EBIEN	System.FM.CAN.EBIEN	EV CAN: Battery current charge power	
HVVOL	System.FMS.CAN.HVVOL	EV CAN: HVESS voltage level	
HVCUR	System.FMS.CAN.HVCUR	EV CAN: HVESS current	
BIKWH	System.FM.CAN.BIKWH	EV CAN: Energy generated	
BOKWH	System.FM.CAN.BOKWH	EV CAN: Energy consumed	

Installation Notes

1. **The script is NOT compatible with TRACERS**
2. The CAN jumpers must be in a position to ONLY allow **read** actions on the CAN bus (Passive Mode)
3. The script supports 29-bit CAN message identifier CAN headers.
4. The script only supports a CAN bus with a speed of 250 kbit/s CAN bus speed
5. Device Drivers: BAS 1.70k - E15.08.27.xx or later sets are supported
6. Both scripts can/should connect to the same install point.

Wiring and Installation Instructions

CAN bus location 1	5) Other
Wire Colors & Details	No details
Can bus speed	CAN_250_kbps