memotec Messtechnik

Technical Documentation

AiM ECU Bridge I CAN Interface

TD

memotec GmbH
Bauwaldstrasse 1
D-75031 Eppingen

+49.7260.920440
info@me-mo-tec.de

www.me-mo-tec.de

Description AiM ECU Bridge

ECU Bridge is an interface module connecting the engine control unit (ECU) to an AIM Display as well as to the SmartyCam, whenever a Datalogger is not available.

The ECU Bridge does not possess an internal storage and therefore it can't save ECU-data, which it admittedly provides for the SmartyCam for the overlay in the film, for the analysis with the software RaceStudio 2. These data can be indicated by connecting the ECU Bridge with an AIM Display (M3 – Dash, TG – Dash, Formula Steering Wheel, GT Steering Wheel, MXL-Dash) or (for Overlay) with the SmartyCam.

The ECU Bridge has an USB Port and three cables, two on the right and one on the left hand side. The USB Port makes it possible with the help of a PC via USB-cable to configurate the ECU Bridge. The configuration is done using the free AIM-Software RaceStudio 2, by selecting in the appropriate menu the connected ECU.

Special Features AiM ECU Bridge

- AiM CAN Bus network (EXP)
- ECU Interface (CAN Bus, RS 232, K-Line, OBD II)
- More than 2.000 various ECU's selectable
- Online-indication of the measurement values
- USB port for programming

Technical Data AiM ECU Bridge

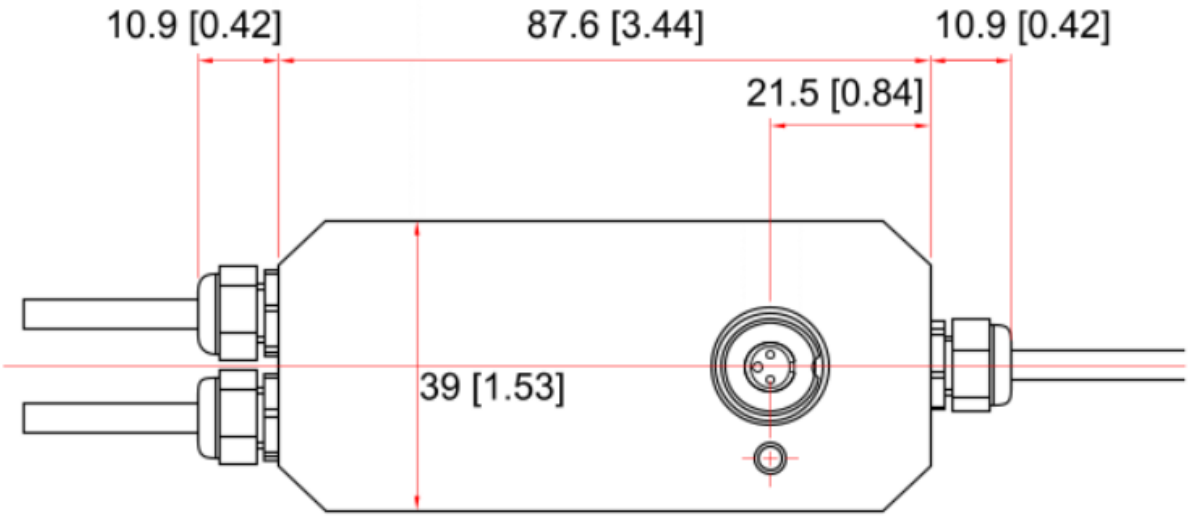
CAN-connections:	2
Connector:	Binder 711, 5-pin & 3-pin
Dimensions:	109,5x39x17 mm
Weight:	220 gr
Protection class:	IP65
Power consumption:	~50mA

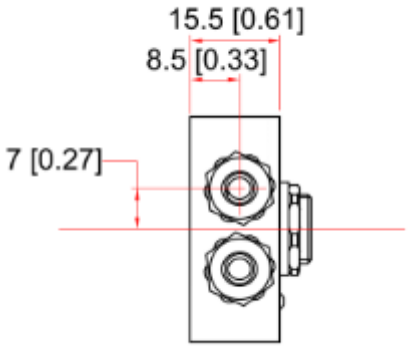
Overview of SMC Bridges

	ECU Bridge	RPM Bridge
Supply		
Power supply	9 - 15 VDC	9 - 15 VDC
Power consumption mA [max.]	39	39
Inputs		
Analogue[optional]	-	-
Analogue 0 - 5 V	-	-
Analogue 0 - 12 V	-	-
ECU Channels [max.]	120	-
Digital [optional]	-	-
Thermocouple [optional]	-	-
Speed	-	-
Lap time GPS	-	-
Lap time optical	-	-
Lap time magnetic	-	-
Rear camera	-	-
External keyboard	-	-
RPM over coil	-	x
Outputs		
Signal	-	-
CAN	-	-
Reference voltage	-	-
Communication		
CAN Interface	1	-
K-Line	1	-
RS232	1	-
USB	x	x
WiFi	-	-
Storage		
Storage in GB [optional]	-	-
Total sample rate	-	-
Sample rate per channel	-	-
Other		
Acceleration sensor	-	-
Gyroscope	-	-
Connector	Binder 711, 5 & 3 pin	Binder 711, 5 & 3 pin
MOT	-	-
Display	-	-
Alarm lights	-	-
Shift lights	-	-
Calculated channels	-	-
Light sensor	-	-
Measurements	109 x 39 x 17 mm	109 x 39 x 17 mm
Weight	220 gr	220 gr
Protection class	IP65	IP65
Compatible devices		
GS-Dash	-	-
G-Dash	x	x
GT-Steeringwheel	x	x
FSW 2	x	x
FSW 3	-	-

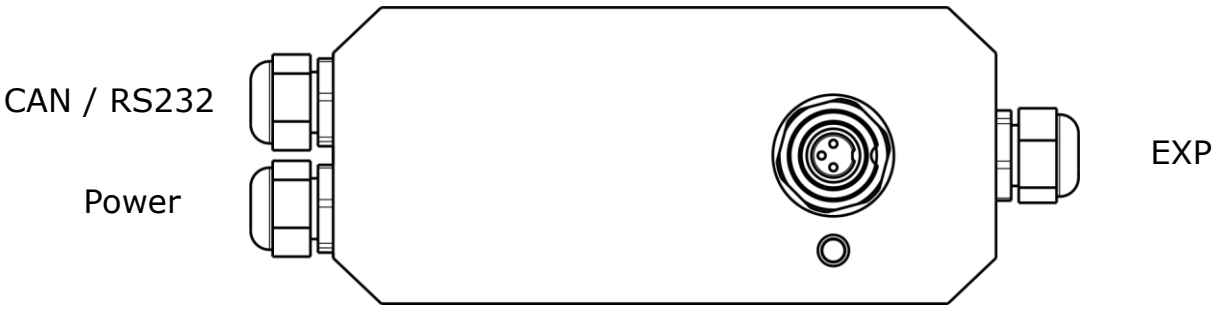
x = standard | o = optional | - = not possible | Digit = amount

Measurement AiM ECU Bridge



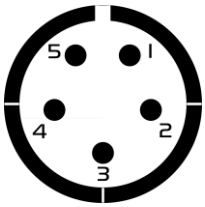


Pinout AiM ECU Bridge CAN / RS232



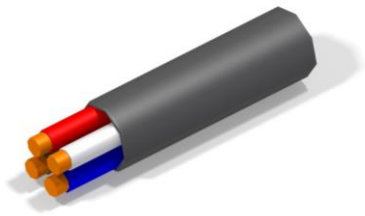
EXP | Binder 711 5 pin

Pin	Function	Pin	Function
1	EXP CAN +	4	EXP CAN -
2	EXP Ground	5	EXP +Vbat out
3	EXP +Vbat		



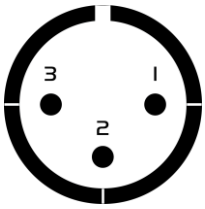
CAN / RS232 | open wires

Color	Function	Color	Function
White	RS232RX	White	CAN +
Black	Ground	Blue	CAN -
Blue	RS232TX		



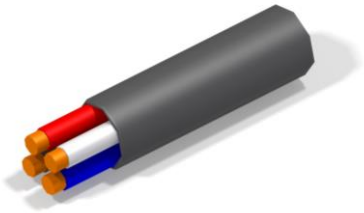
USB | Binder 711 3 pin

Pin	Function	Pin	Function
1	USB D+	3	Ground
2	USB D-		

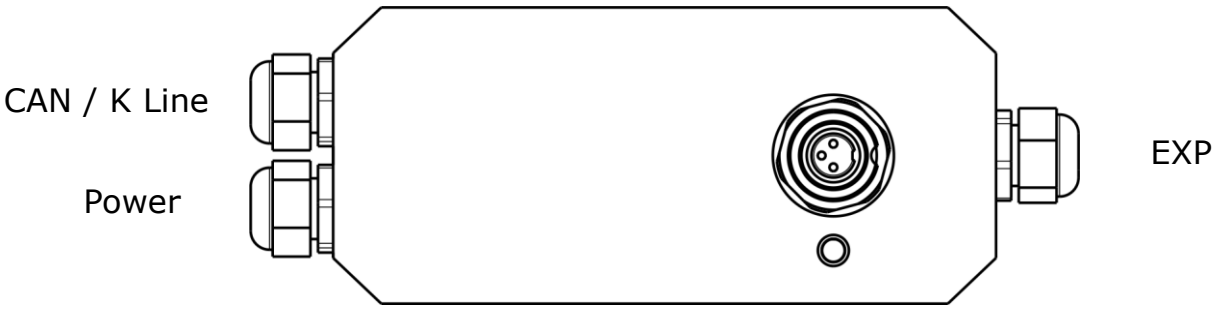


Power | open wires

Color	Function	Color	Function
Red	9 – 15 V	Black	Ground

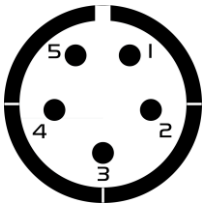


Pinout AiM ECU Bridge CAN / K Line



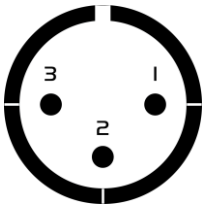
EXP | Binder 711 5 pin

Pin	Function	Pin	Function
1	EXP CAN +	4	EXP CAN -
2	EXP Ground	5	EXP +Vbat out
3	EXP +Vbat		



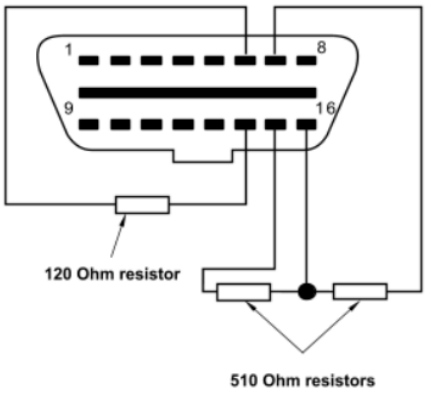
USB | Binder 711 3 pin

Pin	Function	Pin	Function
1	USB D+	3	Ground
2	USB D-		



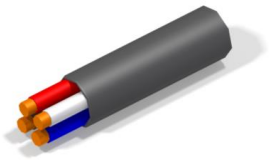
CAN / K Line | OBDII

Pin	Function	Pin	Function
5	Ground	14	CAN -
6	CAN +	15	L Line
7	K Line		



Power | open wires

Color	Function	Color	Function
Red	9 – 15 V	Black	Ground



Scope of supply AiM ECU Bridge

AECB11-CR	ECU Bridge CAN/RS232 without connector

Store

Accessory AiM ECU Bridge

CDU-101	USB-Data transference cable 711m-3p (evo4)

Store

BDAHU11-4101	Data Hub, 4-port, 150 cm, 711

Store

CVK-150103	Extension 150 cm, 711m – 711f, 5 pin

Store

Release History

Release	Date	Author	Comments
100	05.03.2024	TME	First release

memotec®
Messtechnik

memotec GmbH
Bauwaldstrasse 1
D-75031 Eppingen

+49.7260.920440
info@me-mo-tec.de

www.me-mo-tec.de