

Scrutineering Data Logger evo5



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Scrutineering Data Logger (SDL)

AiM evo5 – TCR Series



Scope of delivery

All cars



Components

1	Wiring Harness 37-p, SDL With Deutsch DTM connector for CAN	6	Fixation Rivet nut and Silentbloc
2	Pressure sensor 0-3 bar absolute Binder 711, 4-p	7	AiM GPS Module GPS System
3	AiM evo5 Scrutineering Data Logger	8	IR-Receiver Laptime capturing
4	Mini USB Adapter USB – Connection to PC	9	Connection cable, SDL, FIA, DTM06-6S CAN Bus Adapter,
5	Holder kit SDL Logger		

Scrutineering Data Logger (SDL)

AiM evo5 – TCR Series



Order sheet

Invoice address

Company	
Contact person	
Address	
E-Mail	
Telephone	
VAT Reg. No	

Delivery address

Company	
Contact person	
Address	
E-Mail	
Telephone	

Data Logger Kit buying

Part no.	Description	Price	Qty.
evo5-TCR	evo5 Kit SDL TCR w. IRE, press sensor, without tube	1.750,00 €	

Data Logger Kit renting

Part no.	Description	Price	Qty.
L23-TCR	rental rate for evo5 data logger TCR Int. per event	300,00 €	
L23-TCR-D	rental rate for evo5 data logger TCR Germany, 1 event	200,00 €	

Connection cable 12V & CAN Bus

Part no.	Description	Price	Qty.
SDL-HON	Connecting cable SDL, Honda TCR	65,00 €	
M22-ASV	Connecting cable SDL, 12V / CAN, Audi, Seat, VW (TCR)	60,00 €	
M22-P308	Connecting cable SDL, 12V / CAN, Peugeot TCR	60,00 €	

Components

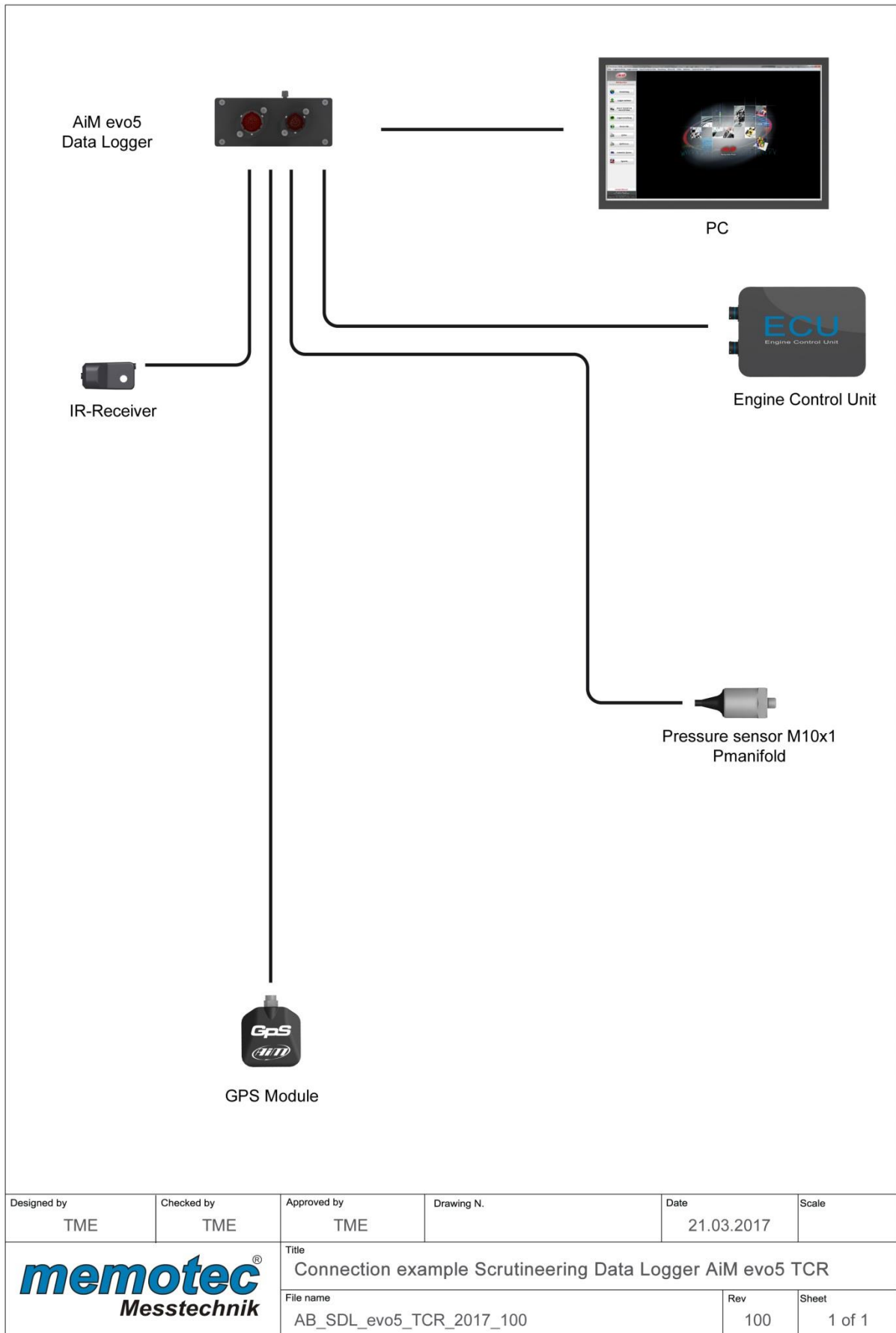
TCR International 2017

evo5-B000	evo5 without accessory, Scrutineering Data Logger Data logger with 3 CAN, WiFi, SD cards, 8 analogue inputs
evo5-KBSDL	Wiring harness evo5, 37 pin, SDL Binder 711 connector and 4 Analogue channels
GPS-08L	GPS-08 with 4000 mm cable length GPS System
M21E003	USB-Adapter 719 4-p - Mini USB USB connection to the Data Logger
M-HGTM	Holder kit for SDL Logger Holder for various SDL components
V26Z943	Pressure sensor 0 - 3 bar absolute, 711 Pmanifold, M10x1
M13ZL11S	IR Receiver, 711 Lap Trigger
M22-FIA	Connection cable, SDL, FIA, DTM06-6S CAN Bus Adapter, connection between car and Logger

Scrutineering Data Logger (SDL)

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Connection example

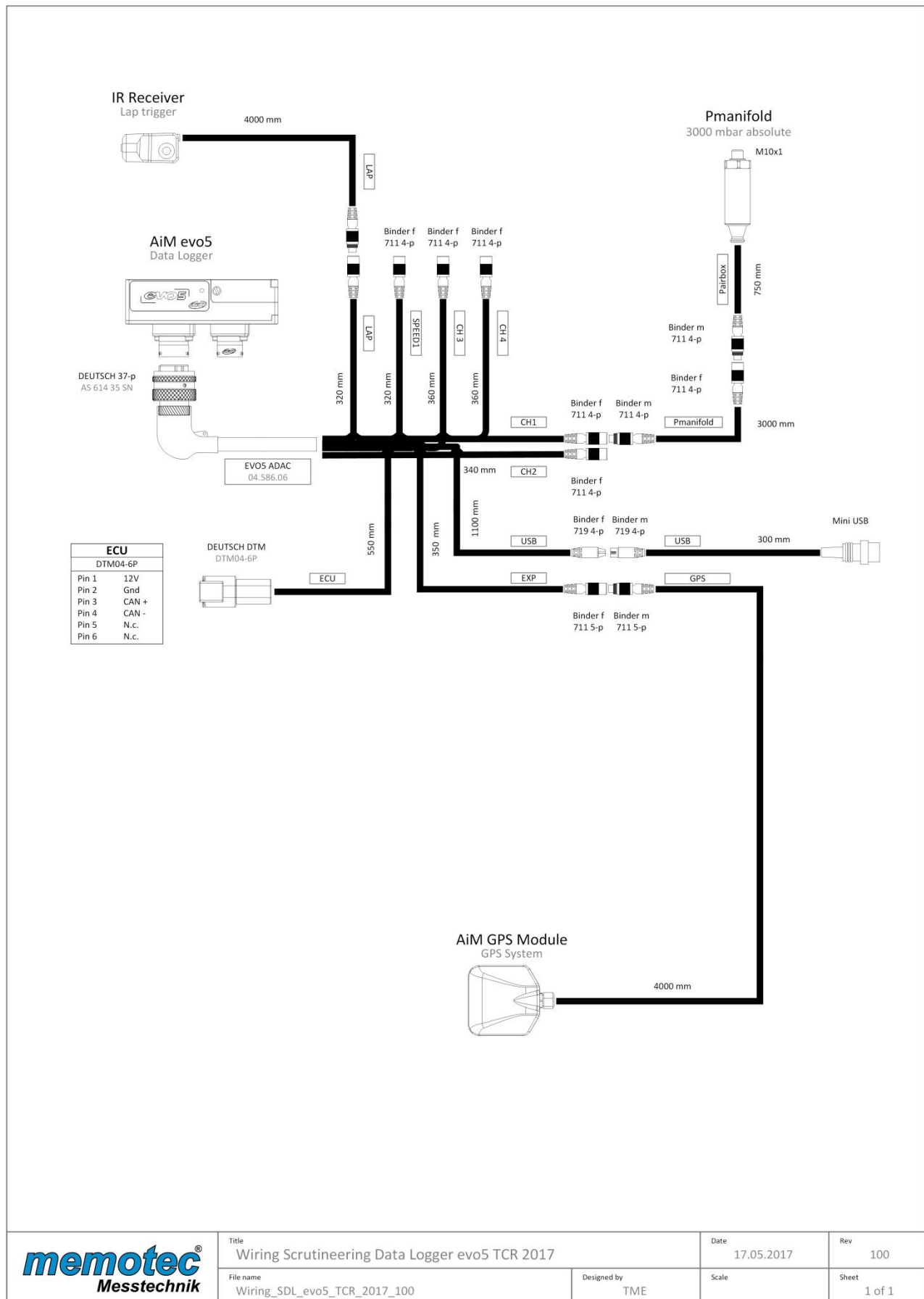


Scrutineering Data Logger (SDL)

AiM evo5 – TCR Series



Connection diagram Scrutineering Datenlogger



Title: Wiring Scrutineering Data Logger evo5 TCR 2017

Date: 17.05.2017

Rev: 100

File name: Wiring_SDL_evo5_TCR_2017_100

Designed by: TME

Scale:

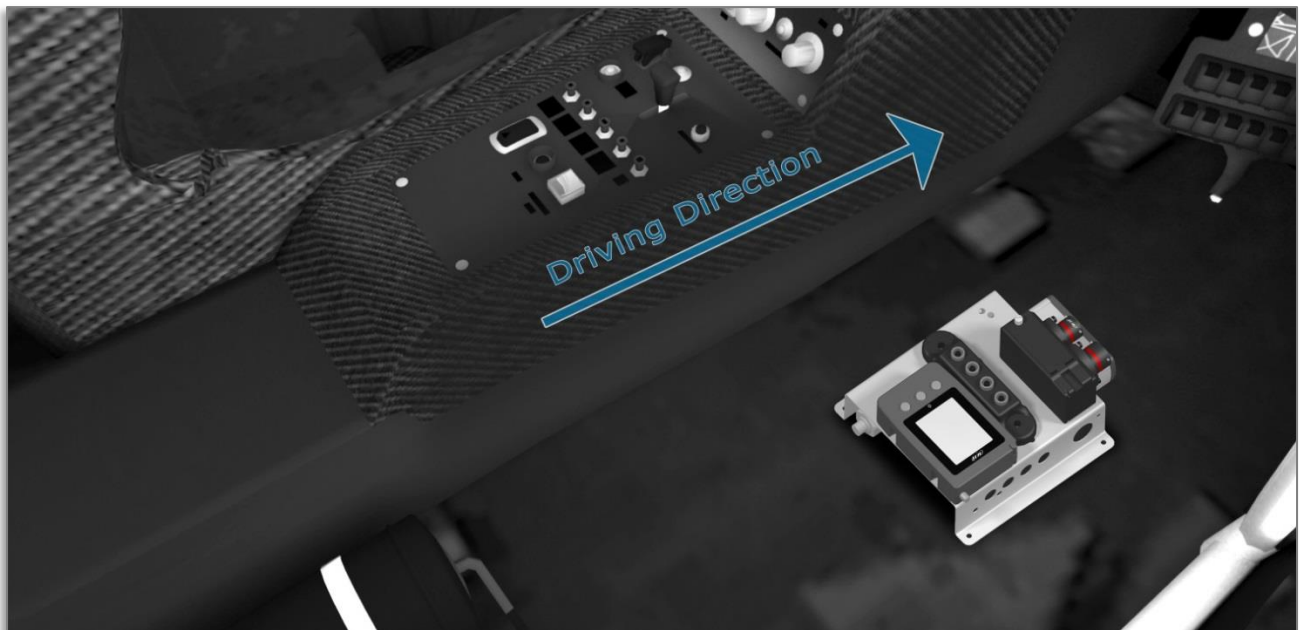
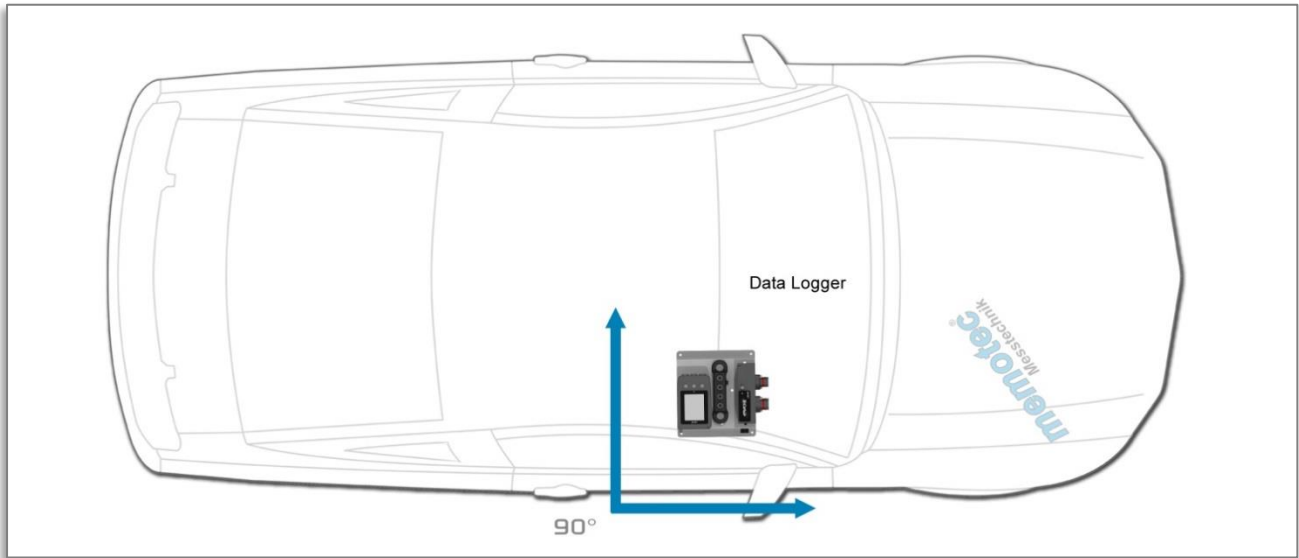
Sheet: 1 of 1

Scrutineering Data Logger (SDL)

AiM evo5 – TCR Series

Mounting of the Data logger AiM evo5

The Data Logger AiM evo5 must be mounted on the passenger side, so that the connections are facing to the passenger side door. The connection should be easily accessible. The logger (and therefore the holder) has to be rectangular to the car central axis. Mark yourself the position of the 4 holes, which have to be drilled into the base plate and afterwards must be equipped with rivet nuts. Drill 4 holes with $\varnothing 6.2$ mm, and affix the rivet nuts and mount the silent blocs.

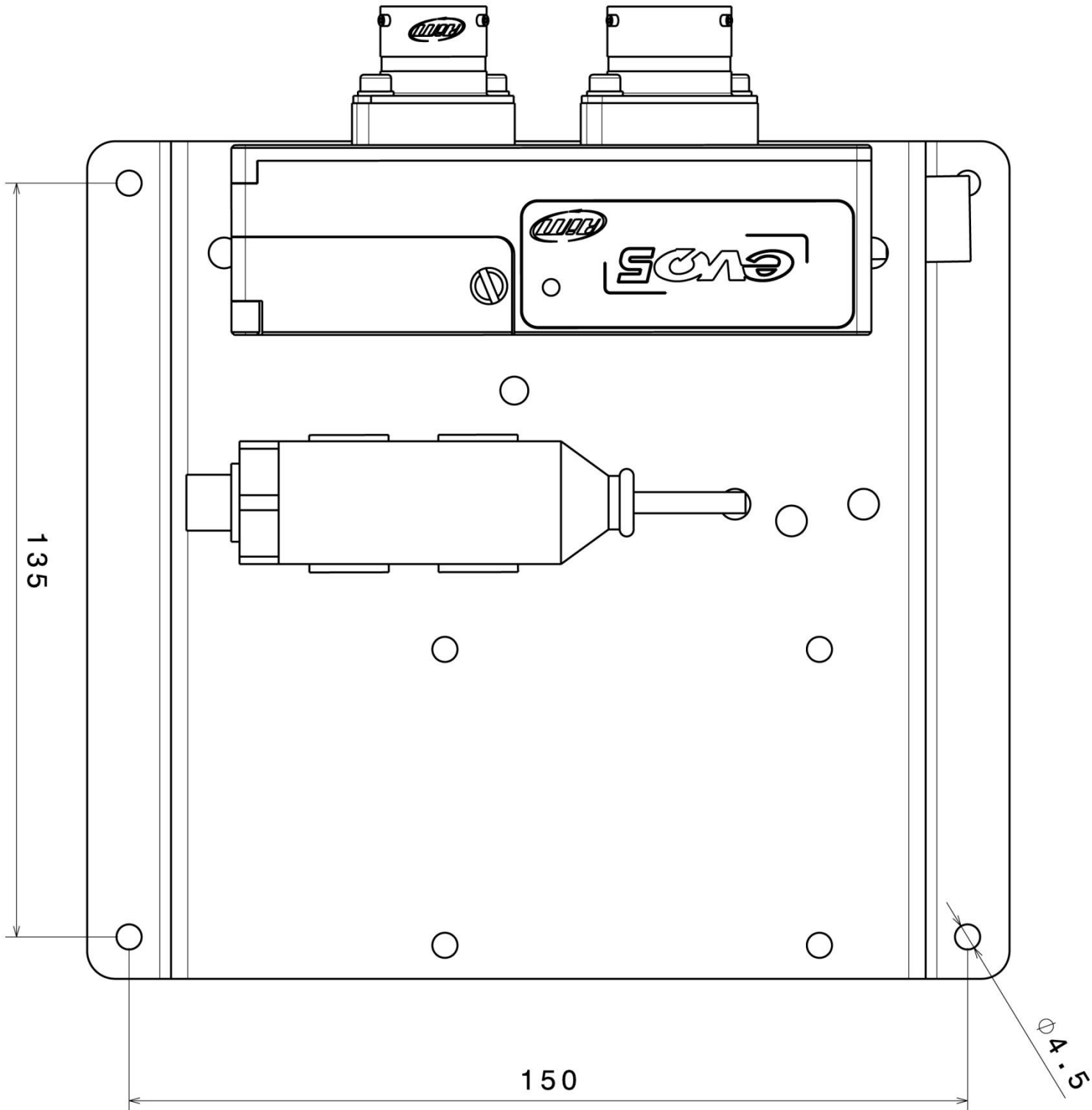


Scrutineering Data Logger (SDL)

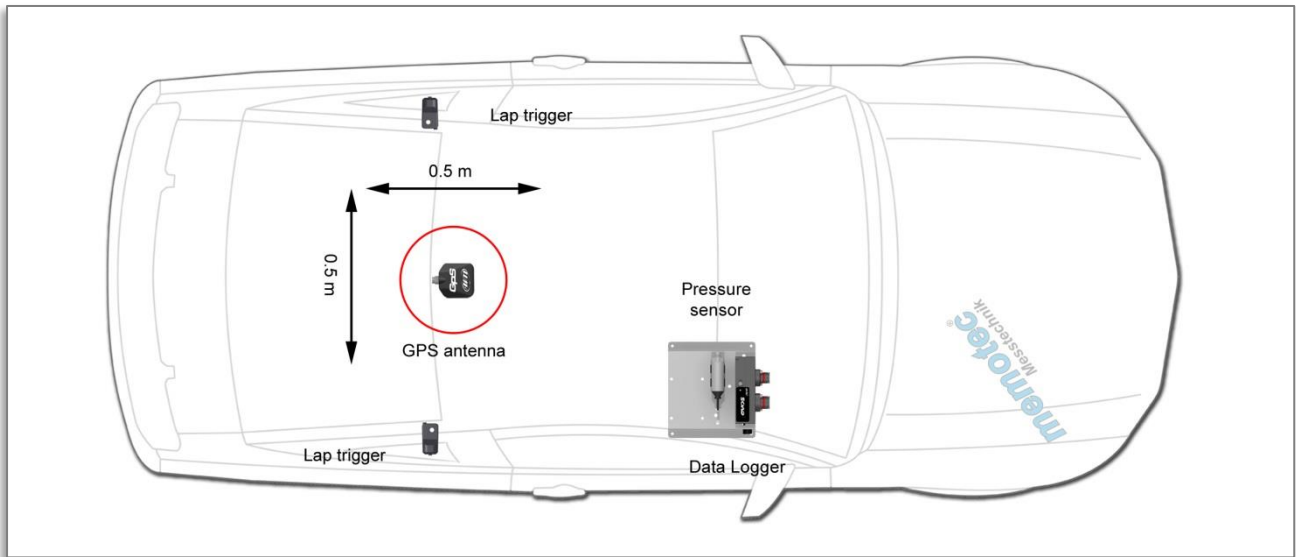
AiM evo5 – TCR Series



Drilling template



Comment: The sketch can be used as a drilling template.



GPS Antenna

The GPS Antenna must be mounted in a position on the vehicle roof, so there is within 0.5m no further Antenna (GPS, radio).



Manifold pressure sensor

Pressure sensor: Is measured by the memotec sensor V26Z943. Measuring range 0-3 bar absolute, resolution 0.7 mbar. The sensor must be placed directly in the suction systems, but over a tube mounted solid to the chassis (free from vibrations and heat).

The tube must be a steelflex brake line in size D-03 with a fitting that is screwed into the suction system. With the pressure sensor comes a fitting with M10x1 internal thread onto D-03, to be able to fasten the brake line to the pressure sensor. Teams and manufacturers are themselves responsible for the procurement and mounting of the brake line and the fitting for the suction systems.



Optional connection kit for pressure sensor



There are versions with straight connections to the intake manifold and 90° angled connection. Both versions are available in the lengths 0,5m, 1m and 1,5m. Also fittings with M10x1 thread for the connection between tube and intake manifold are available.

An optional connection kit for the pressure sensor contains:

1. 1 Fitting D 03 - M10x1, steel (connection for the pressure hose to the engine)
2. 1 D03 Steel mesh PTFE-tube (in various lengths).

IR receiver

The IR receiver must be mounted, depending on the driving direction, either left or right of the rear side window. It should be noted, that the IR eye is obscured by labels or others. The alignment should be towards upper edge of the pit wall.



Data storage

The data are stored on a normal SCHC Class 10 SD card.



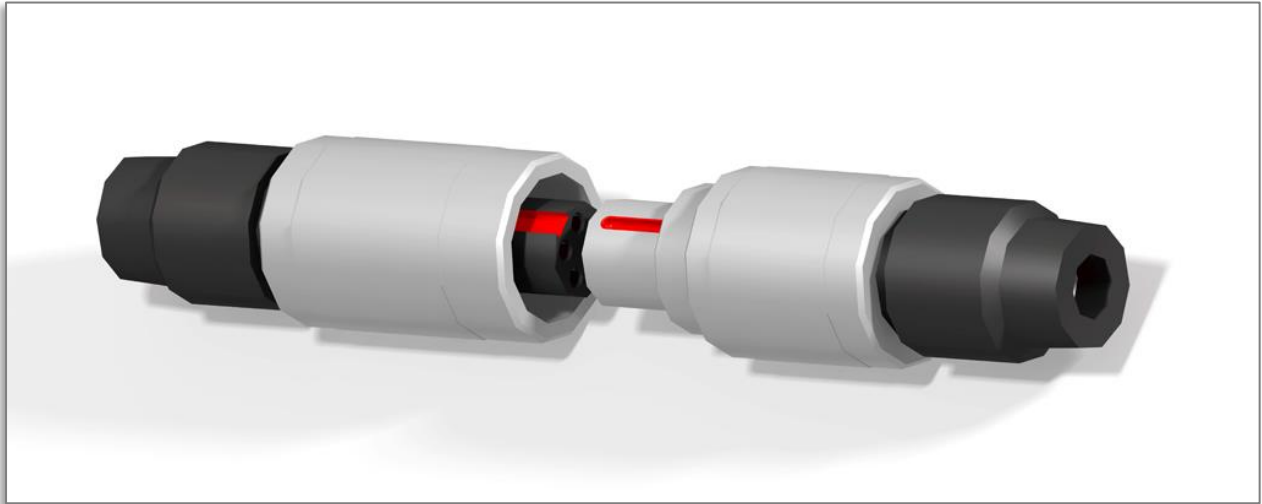
Important:

Install the SDL kit as described in this manual. The position and alignment of all components must be identical in all vehicles which take part in the TCR Races.

Comments

* All prices are inclusive 19% VAT.

Correct Position of Binder connector when plugging together



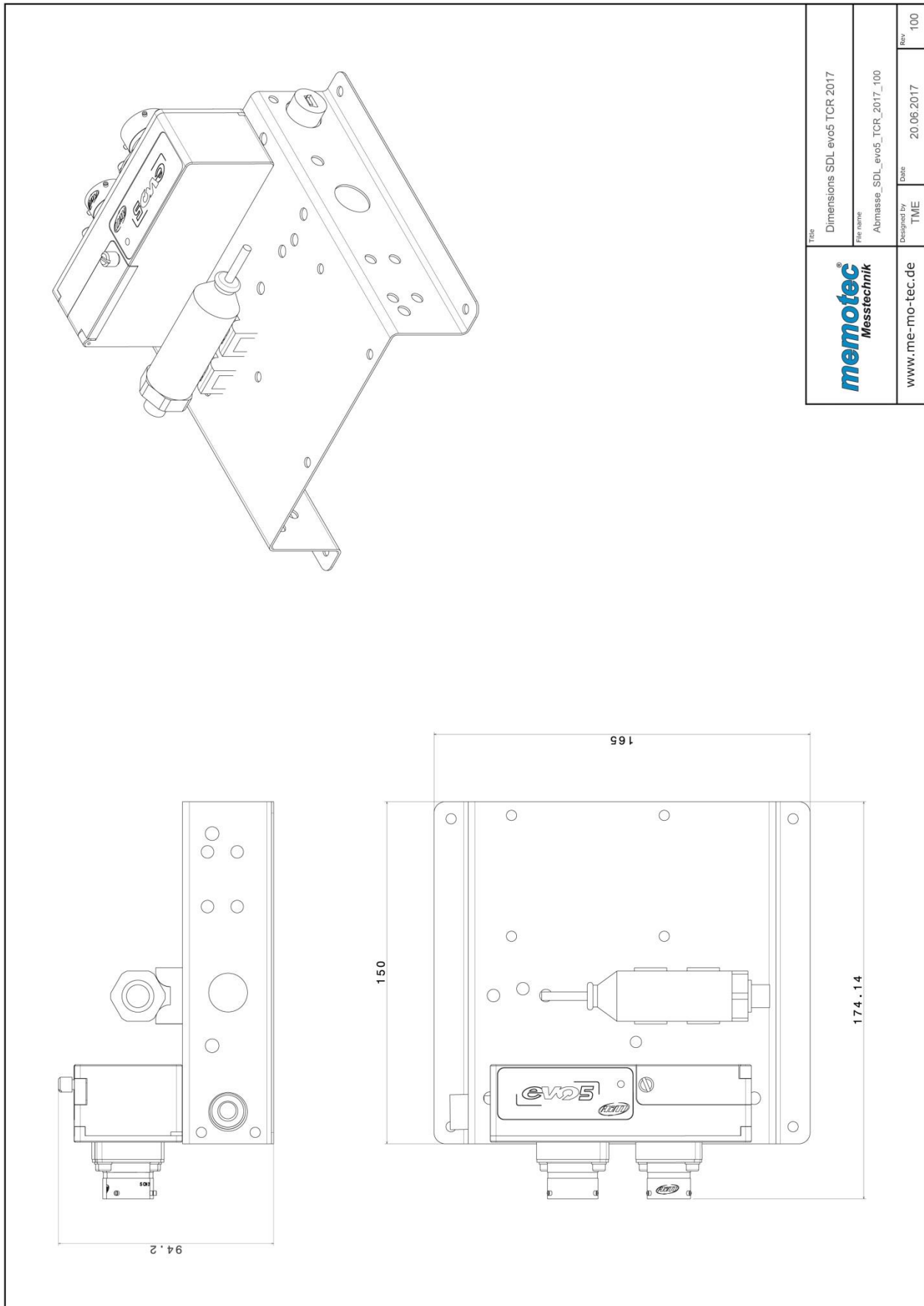
The here red marked notches must be in the same position.

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Admeasurements

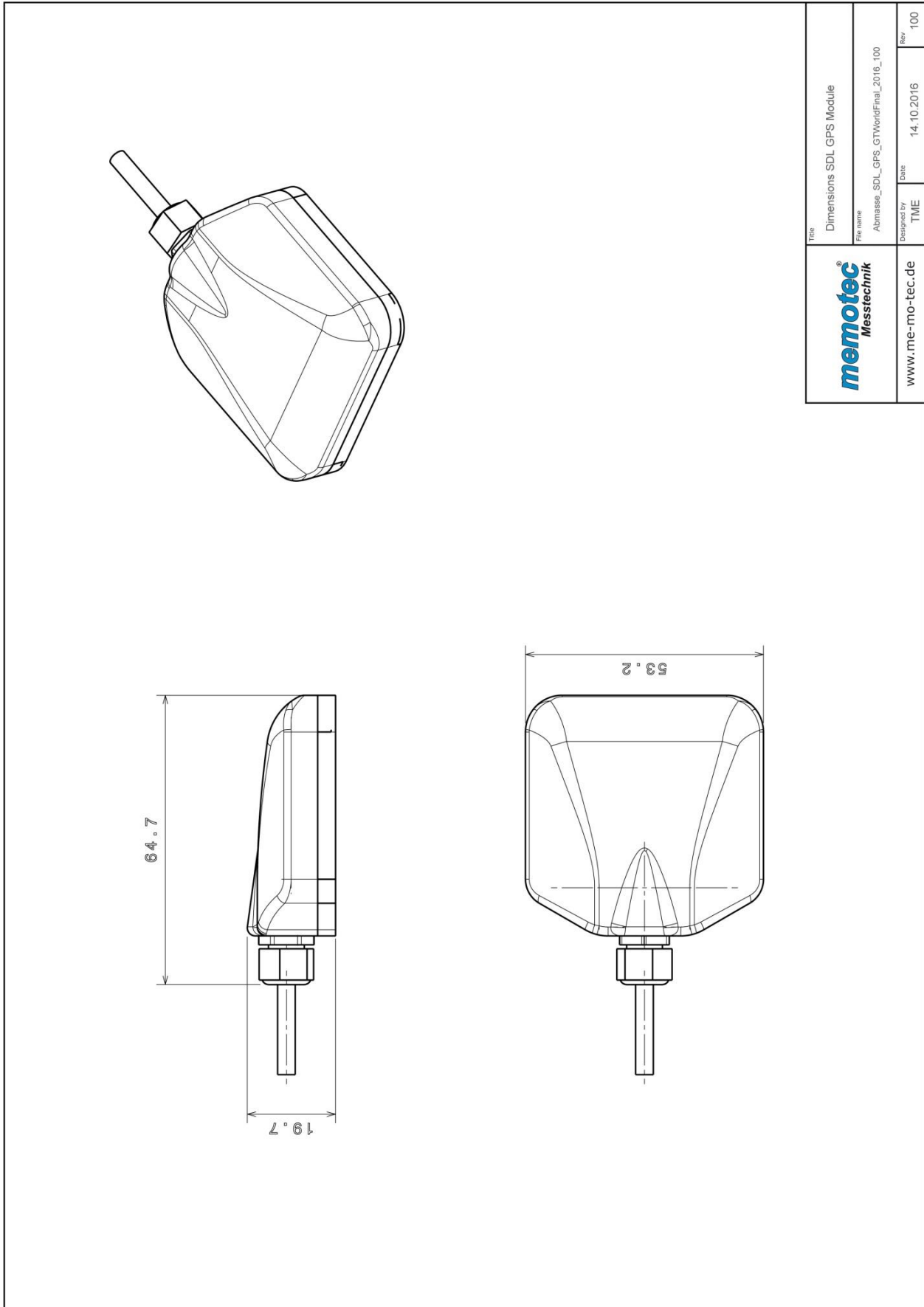


Scrutineering Data Logger (SDL)

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GPS Module



Title		Dimensions SDL GPS Module	
File name		Abmasse_SDL_GPS_GTWWorldFinal_2016_100	
Designed by	Date	Rev	
TME	14.10.2016		100



www.me-mo-tec.de

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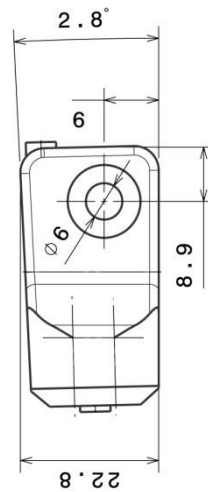
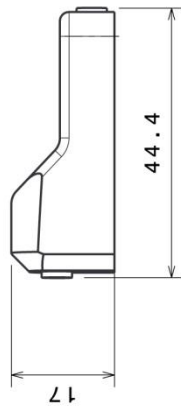
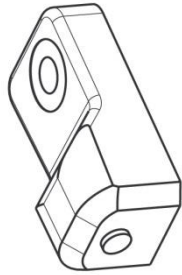



Pressure Sensor

The technical drawing illustrates the dimensions of the pressure sensor. The top view shows a hexagonal base with a diameter of 22 and a distance of 24.6 from the center to the corner. The side view shows a total length of 82.4, with a threaded section of M10x1 and a distance of 6.62 from the base to the start of the main body. The diameter of the main body is 22. A perspective view shows the sensor's profile, including the hexagonal base and the long, thin probe.

	Title Dimensions SDL Pressure Sensor
www.me-mo-tec.de	File name Abmasse_SDL_Pressure_GTWorldFinal_2016_100
	Designed by TME
	Date 14.10.2016
	Rev 100

IR Receiver



 www.me-mo-tec.de	Title Dimensions SDL IR Receiver
	File name Abmasse_SDL_IRE_TCR_2017_100
Designed by TME	Date 21.06.2017
Rev 100	

Release History

Release	Date	Author	Note
100	21.06.2017	TME	First release