

Product information

STM | Scrutineering Telemetry Module

Rev 1.00

memotec[®]
Messtechnik

PI

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Telemetry

- Live Data Check
- Live Sensor Check
- Live Boost Control
- Database
- Sending to the car

Live Data Check | As soon as the engine is started, the STM module sends the vehicle data to a cloud. The data is then downloaded from this cloud and the actual / target values are compared via the Reference Value Check.

Live Sensor Check | All vehicles can be displayed via a dashboard. This means that it is immediately visible if something is not working and can be remedied more quickly.

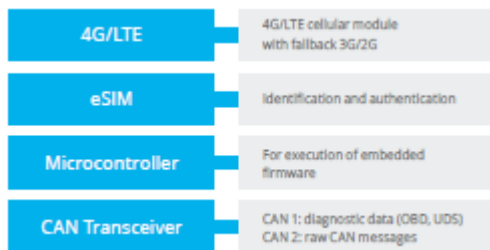
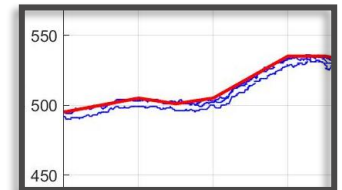
Live Boost Control | The pressure of turbo vehicles can be checked live. This is especially helpful for endurance races.

Database | From the cloud database, the measured values can also be supplied to other providers.

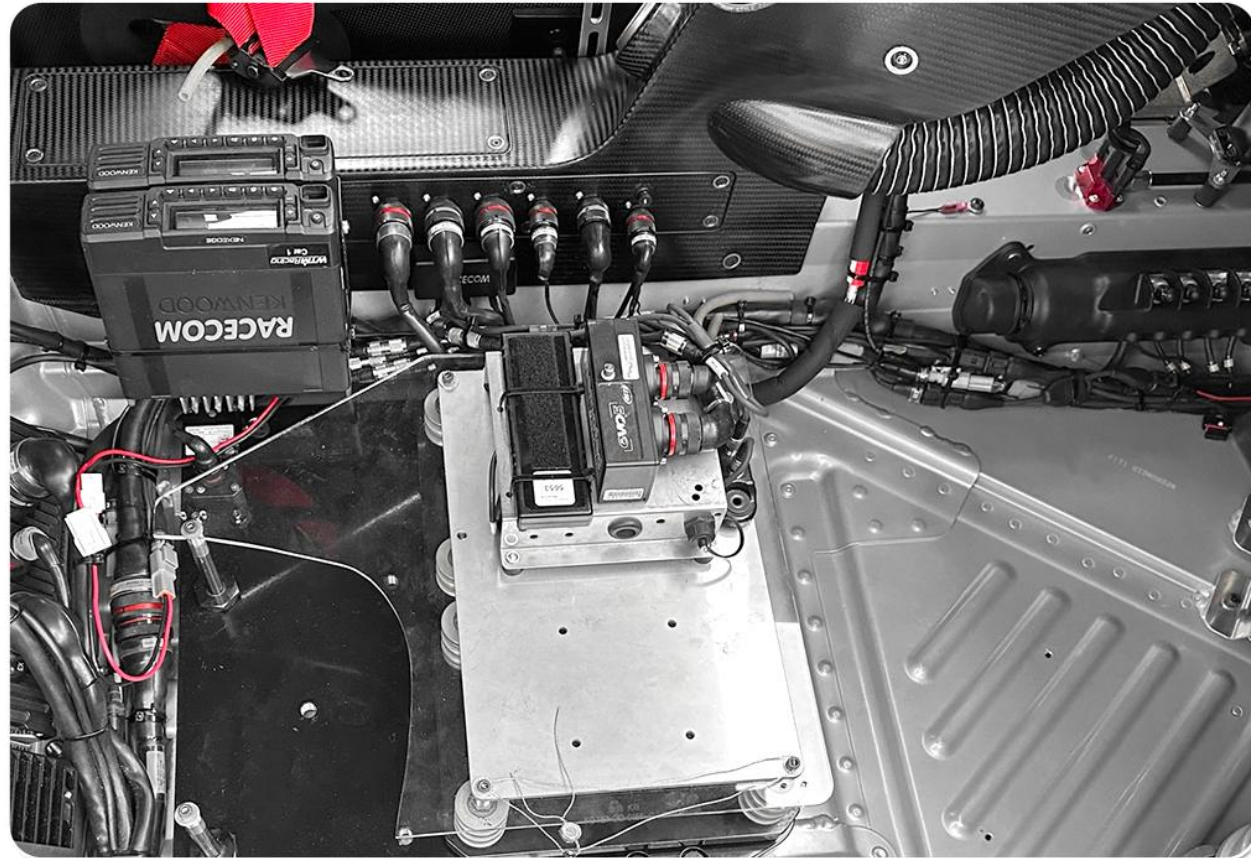
Sending to the car | Send informations like ambient pressure, flag signals, e.g. live via CAN Bus to the car.



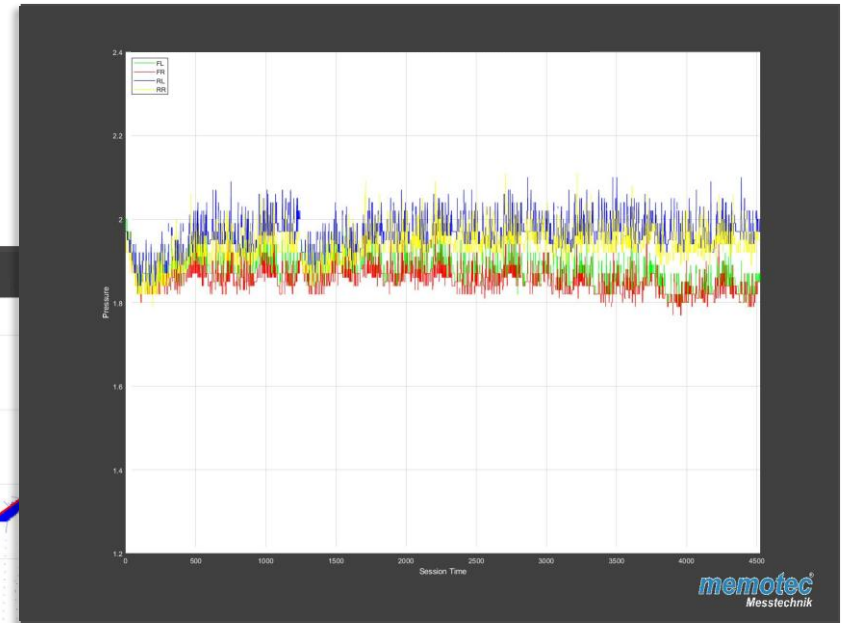
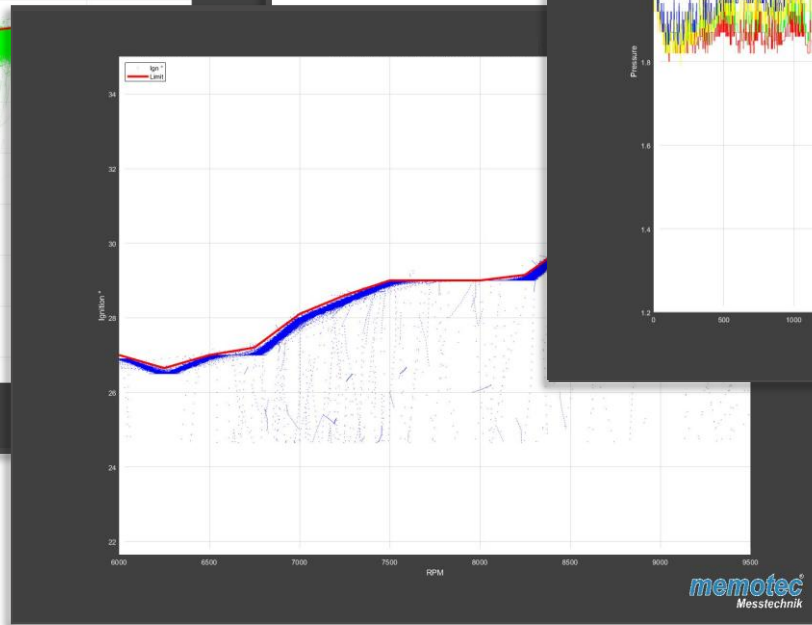
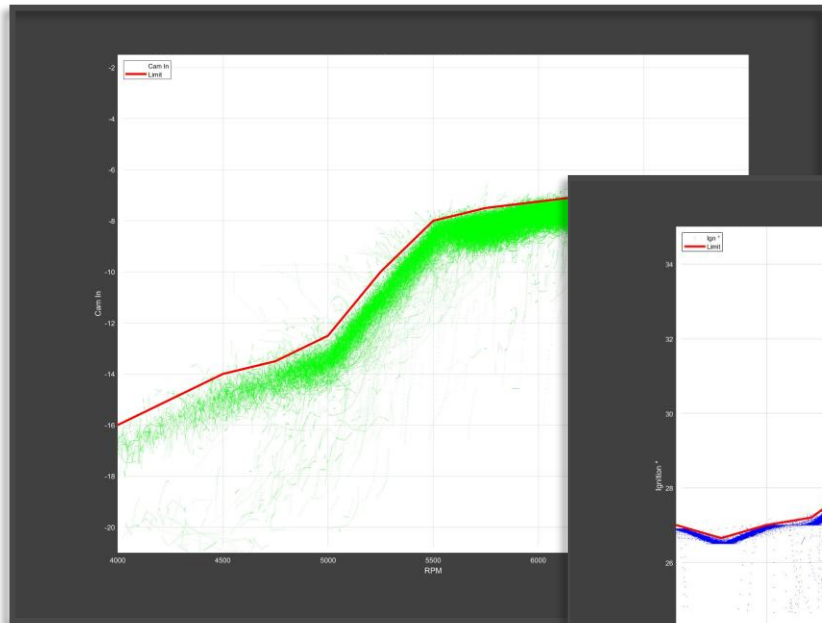
RPM	Gear	GPS_Speed	LAMBDA1	LAMBDA2	TINTAKE	TURBOFD
8133	5	232	1.03	1.03	34.5	31.1
7548	5	234	1.06	1.06	11.7	22.3
8432	5	234	1.03	1.04	32.6	28.7
8693	5	234	1.06	1.06	27.1	19.2
8403	5	235	0.976	0.966	34.0	28.3
8224	5	235	1.04	1.05	30.1	23.6
8216	5	235	1.03	1.06	34.1	31.6
7782	5	232	1.08	1.08	17.0	18.8
6878	5	257	1.25	1.25	33.9	33.6
7438	5	238	1.07	1.06	35.6	21.9



Installation I xTCU Module mounted on the Scrutinizing Data Logger plate. No additional antennas on the roof needed.



Channel Checks I All checks, where normally made after the session, can be started at any time during the session.



Dashboard I In the live dashboard you can see all channels plotted over time. The values are live or you can go back to a specific time.



Dashboard I In the analysis dashboard you can overlay all cars, with different channels over time.



Table with all cars | In a table you will see all cars with current values. It's freely configurable and you can see all values you want. Also, you can set alarms.

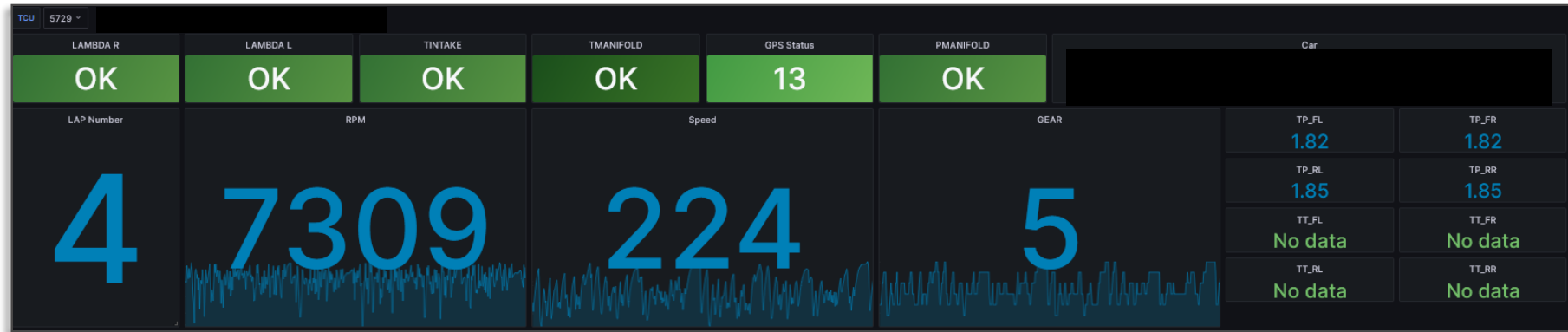
tcuId	tcuTeam	RPM	Gear	GPS_Spee	LAMBDA_1	LAMBDA_2	TINTAKE	TMANIFOI	PINTAKE	PMANIFOI	LAP	GPS_Sat_L
5729		8142	6	253	0.909	0.909	0	0	0	0	1	14.5
5722		8257	5	227	0.887	0.892	0	0	0	0	1	12
5707		7878	6	244	0.889	0.889	0	0	0	0	1	14.5
5706		8892	5	241	0.890	0.889	0	0	0	0	1	12.8
5697		8023	5	218	0.890	0.881	0	0	0	0	1	12.5
5696		7582	4	197	0.903	0.906	0	0	0	0	1	15
5693		7992	5	221	0.909	0.914	0	0	0	0.500	1	14
5692		8505	5	237	0.891	0.889	0	0	0	0	1	15
5688		8285	4	194	0.885	0.889	0	0	0	0	1	13.3
5679		6906	5	247	0.900	0.900	0	0	0	0	1	15
5675		8358	5	229	0.890	0.888	0	0	0	0	1	14
5674		8000	5	228	0.909	0.909	0	0	0	0	1	14
5666		7875	5	241	0.909	0.914	0	0	0	0	1	12
5653		6969	5	246	0.900	0.901	0	0	0	2	0	13.2
5651		7029	4	217	0.900	0.900	0	0	0	0	1	14.5
5645		6800	5	241	0.898	0.902	0	0	0	0	1	13.6
5606		6487	5	240	1.12	1.10	0	0	0	2	1	14
5575		6448	6	214	0.802	0	0	0	0	1.80	1	12.2
4104		6265	5	179	0.818	0	0	0	0	2	1	13.6
4094		5218	4	116	0.904	0	0	0	0	1.20	1	13
3412		7975	5	243	0.909	0.909	0	0	0	0	1	14.7

Table with Alarms I You can see very quickly, which cars have sensor problems. A quick look after the engine warm up and you can fix it before the session. So, you don't lose a complete session by having non fixed sensor problems.

tculd	PINTAKE	PMANIFOLD	Diag_PINTAKE	Diag_PMANIFC	LAMBDA_R	LAMBDA_L	TINTAKE	TMANIFOLD
3412	OK	OK	OK	OK	OK	OK	OK	OK
4094	OK	2	OK	OK	OK	OK	OK	OK
4104	OK	2	OK	OK	OK	OK	OK	OK
5575	OK	2	OK	OK	OK	OK	OK	OK
5606	OK	2	OK	OK	OK	OK	OK	OK
5645	OK	OK	OK	OK	OK	OK	OK	OK
5651	OK	OK	OK	OK	OK	OK	OK	OK
5653	OK	2	OK	OK	OK	OK	OK	OK
5666	OK	OK	OK	OK	OK	OK	ERROR	ERROR
5674	OK	OK	OK	OK	OK	OK	ERROR	ERROR
5675	OK	OK	OK	OK	OK	OK	ERROR	ERROR
5679	OK	OK	OK	OK	OK	OK	OK	OK
5688	OK	OK	OK	OK	OK	OK	ERROR	ERROR
5692	OK	OK	OK	OK	OK	OK	ERROR	ERROR
5693	OK	ERROR	OK	OK	OK	OK	ERROR	ERROR
5696	OK	OK	OK	OK	OK	OK	ERROR	ERROR
5697	OK	OK	OK	OK	OK	OK	ERROR	ERROR
5706	OK	OK	OK	OK	OK	OK	ERROR	ERROR

Live Sensor Check

Car Dashboard I In the car dashboard, you also see the sensor status.



Telemetry Kit

STM Modules | Connection cable | 22p-Wiring harness

Data Rate

Annual flat rate | eSim | Europe

Database

Data one year in the database | Data export

Dashboard

Live Data | Warnings | Comparison



xTCU with wiring harness

per vehicle / one time

1.400,00 € *

xTCU Data flat & Database

per vehicle / every year

400,00 € *

* Net without VAT



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