

**DALCON**  
Level Data Processor  
**Model N03 (20070)**

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**LEVEL DATA PROCESSOR**  
**Model 20070**

**Level Data Processor**, (further called «**DALCON**») has been developed specially for integrators and developers of fleet monitoring systems. DALCON allows you to add the fuel consumption monitoring features to the fleet management systems. Further more we'll call fleet management systems as **AVL**. DALCON uses **LLS type Digital FUEL LEVEL SENSOR** (further called **LLS**) manufactured by VEPAMON OU .

**Functions of DALCON:**

- converts codes from LLS to analog signal according to the total volume of the tanks on board of the vehicle.
- Communicates with one, two or more **LLS** sensors by RS-485 and RS-232 protocol.
- Generates digital (RS-232) and analog (10 bit accuracy) signals according to the total volume of the fuel on board;
- Manages with dashboard fuel gauge;
- Manages with **Fuel Reserve Warning Light. The threshold is adjustable;**
- Could be adjusted to the specific applications of integrator.

**LLS SENSOR CONNECTIONS TO THE DALCON, VARIANTS OF DALCON CONNECTIONS TO AVL (AUTOMATIC VEHICLE LOCALIZATION) SYSTEMS OR DATA LOGGER, TELEMATIC MODULE.**

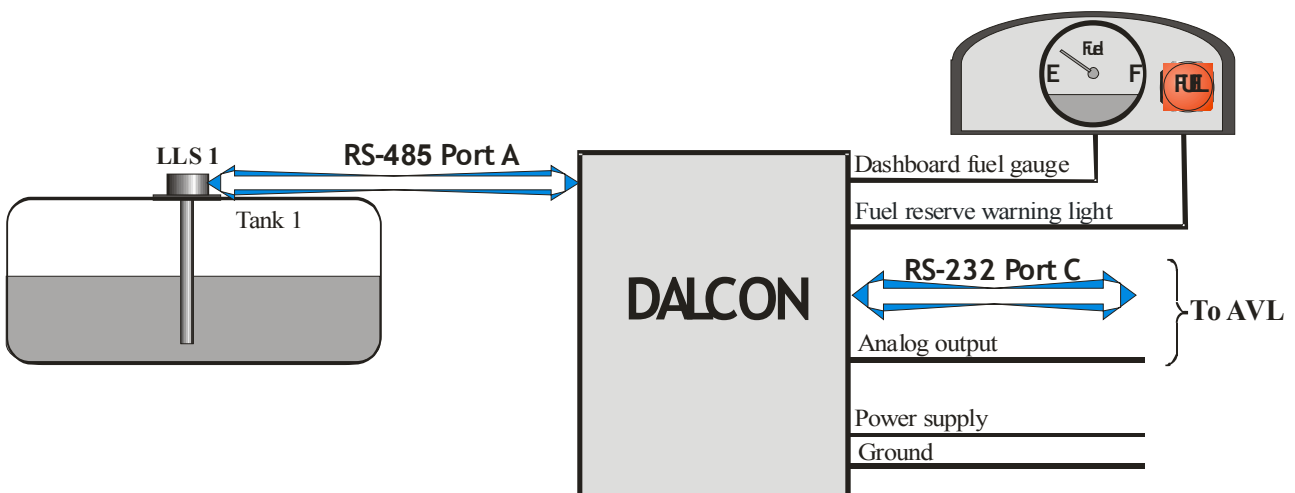


Chart.1. Connections on one tank vehicle via RS 485

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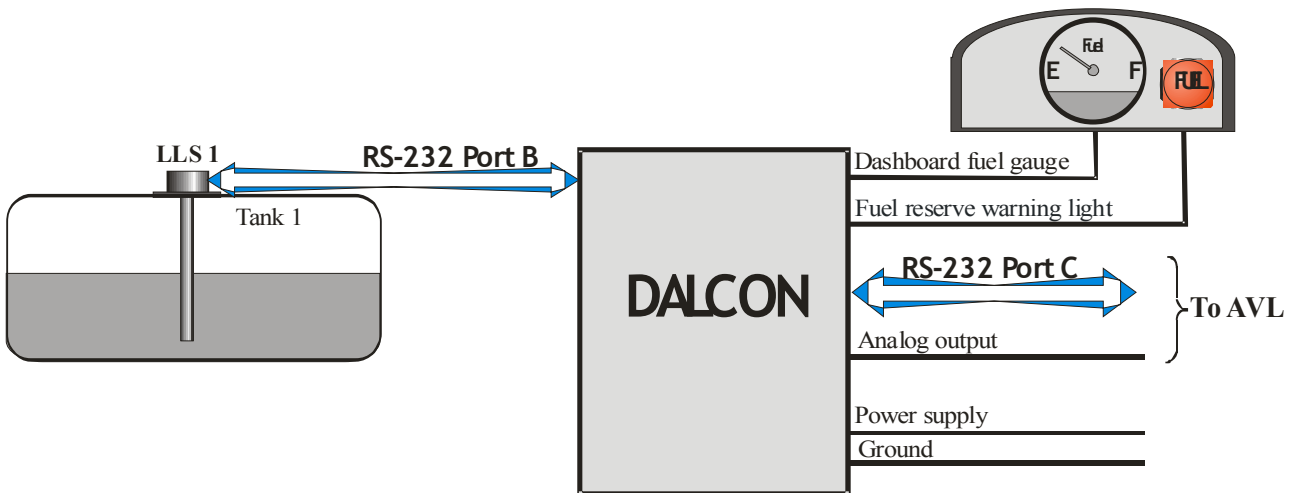


Chart 2. Connections on the one tank vehicle via RS 232

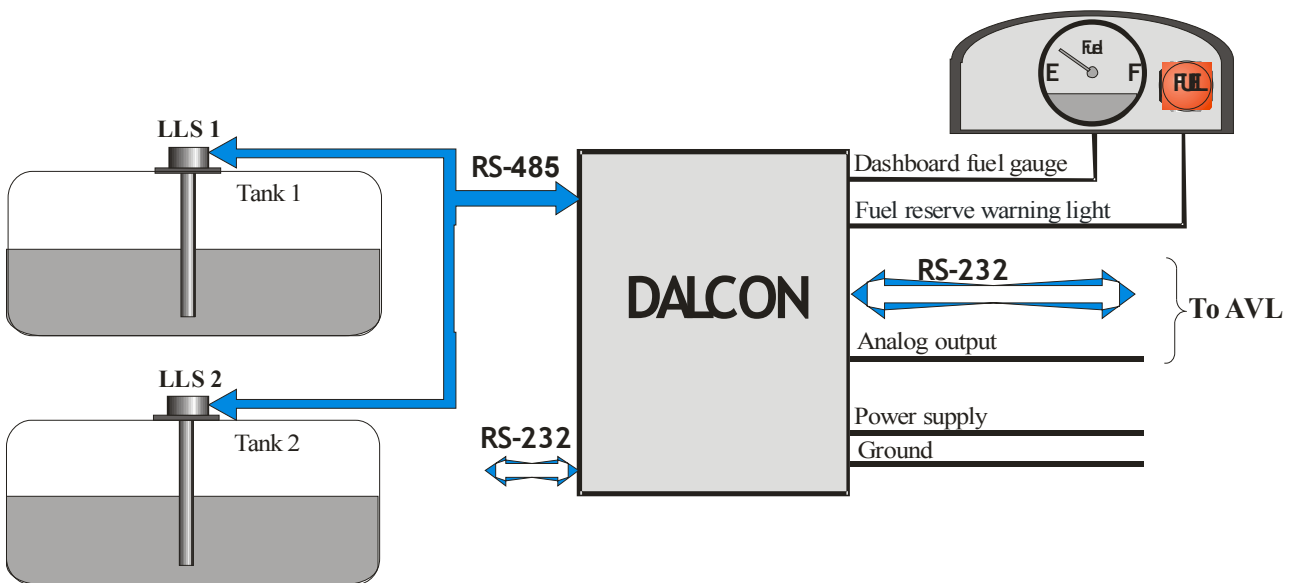


Chart 3. Connections on the two tanks vehicle. Both LLS connected via RS 485

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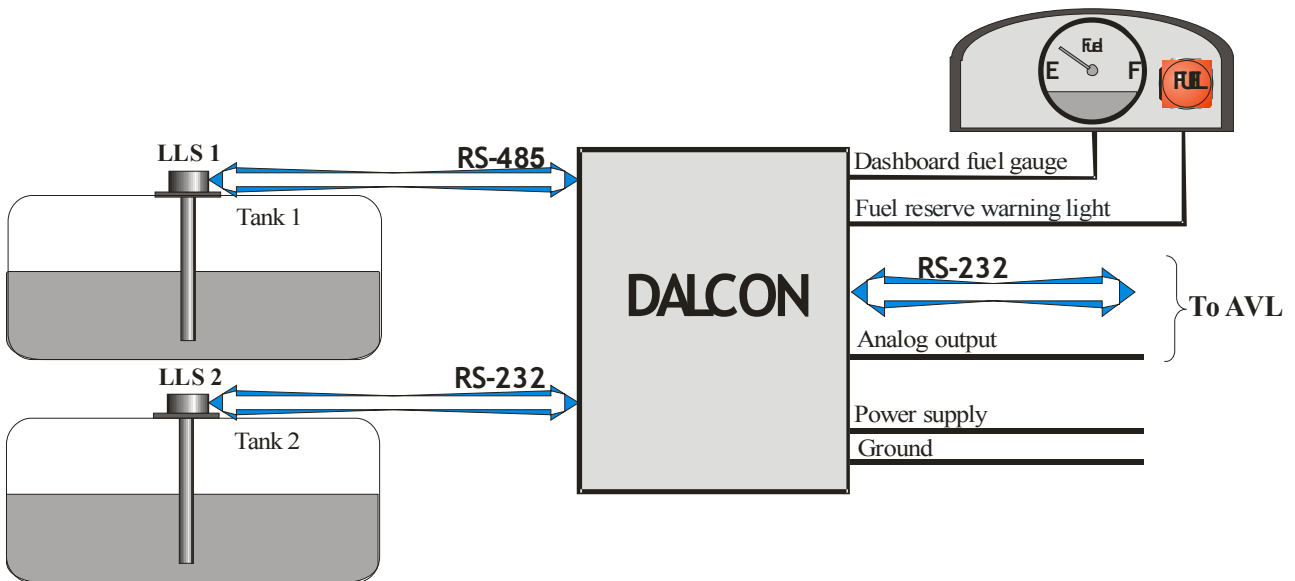


Chart 4. Connection on two tanks vehicle. First LLS connected via RS 232 and second connected via RS 485

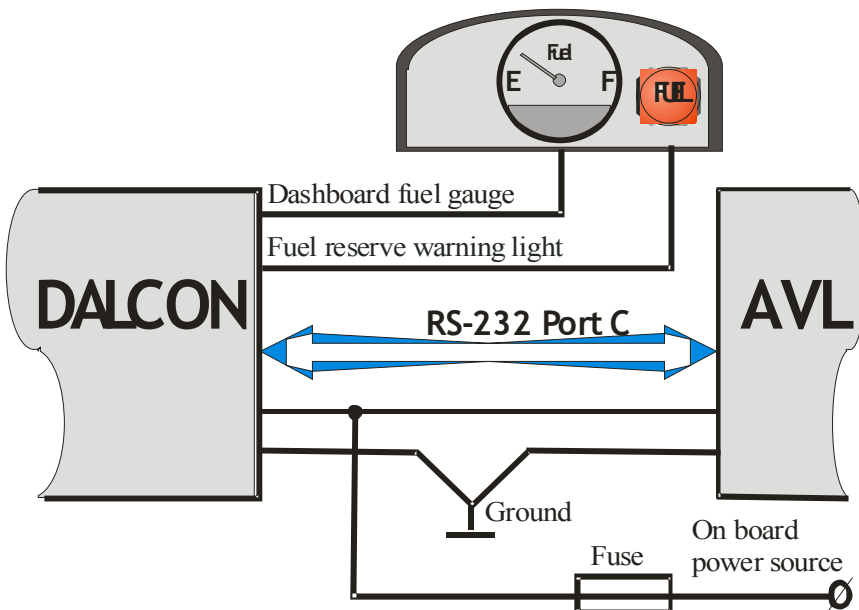


Chart 5. Connection via RS 232

In this case AVL should be adopted to send request to DALCON and read an answer. The Vepamon telematics company is ready to adjust protocol according the integrator's needs. As a standard, the DALCON communicates with AVL unit as LLS.

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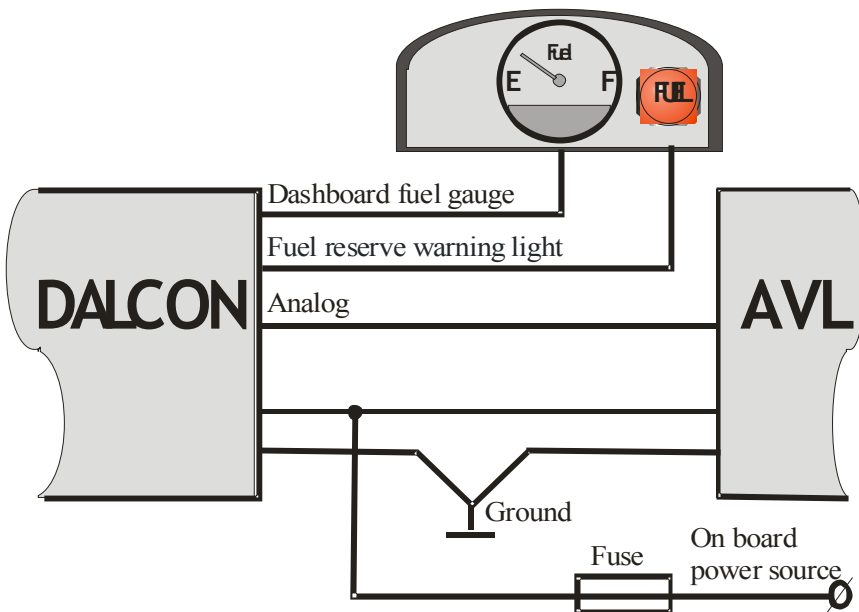
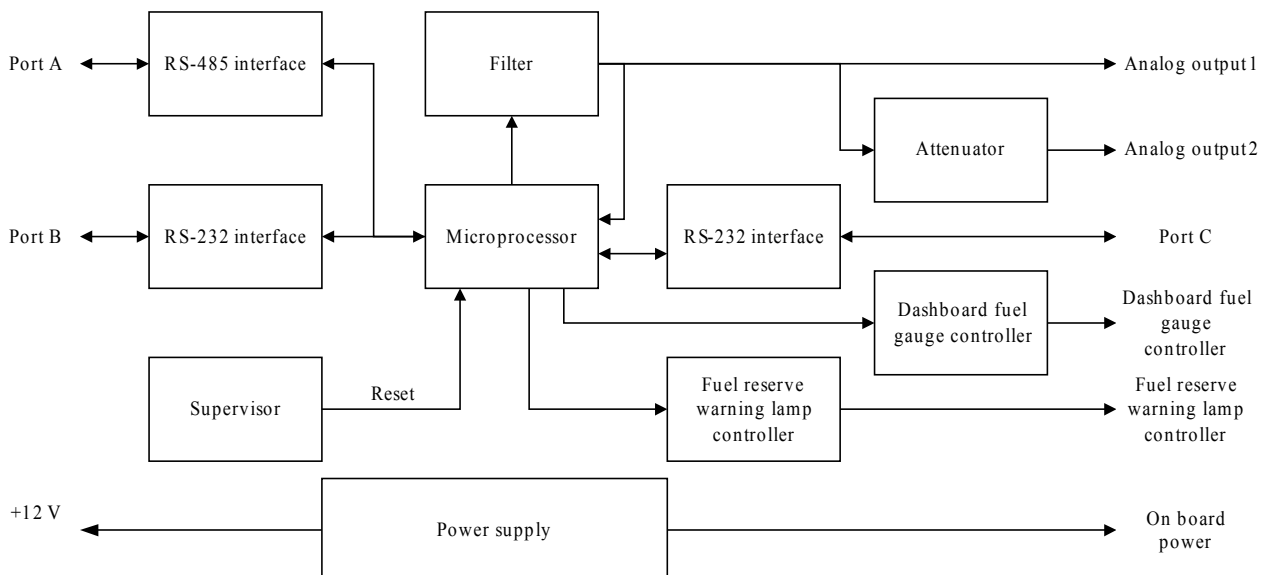


Chart 6. Connection via analog channel.

There are 2 analog outputs on DALCON. The range are 0...4,95 Volt and 0...2,497 Volt. Impedances of analog outputs are also different.

**INTERNAL STRUCTURE OF DALCON**



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**SPECIFICATION OF THE DALCON MODEL: 20070.**

Digital inputs (interfaces) for **LLS type Digital Fuel Gauge Sending Unit (LLS SENSOR)**

- 1.1. Digital input RS-232
- 1.2. Digital input RS-485

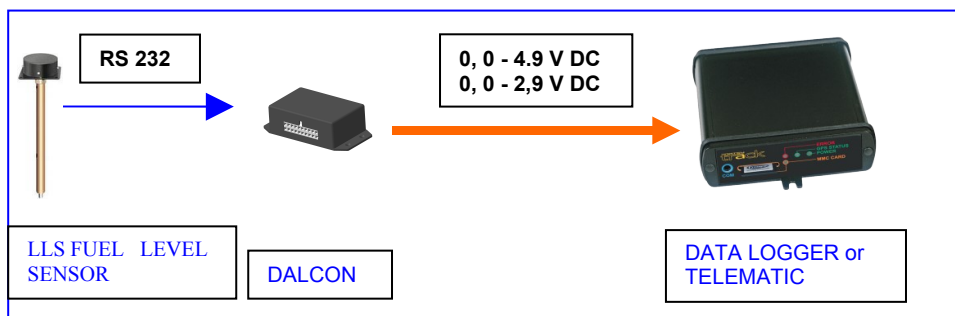
Outputs (interfaces) for data logger link, data transmission.

- 2.1 Digital output interface RS-232,
- 2.2 Analog output « SIGNAL 1»
- 2.3 Analog output « SIGNAL 2»
- 2.4 Output for hand fuel gauge on dashboard.
- 2.5 Output for fuel reserve warning light.

**Technical characteristics:**

1. Power supply, V DC	10...50,
2. consumed current , mA	less than 30,
3. Analog output "Signal1":	
3.1. Impedance, Ohm	less than 100
3.2. Minimum voltage, mV	less than 30
3.3. Maximum voltage, V	not less than 4.97
4. Analog output "Signal 2":	
4.1. Impedance, Ohm	less than 600
4.2. Output voltage	0.5 from Signal1
5. Output for dashboard fuel gauge:	
5.1. Type of output	"open collector",
5.2. Type of signal	PWM
5.3. Maximum current, A	0,5.
6. Output for Fuel Reserve Warning Light:	
6.1. Type of output	"open collector",
6.2. Maximum current, A	0, 5.
7. Temperature range, °C	-60...+80.
8. Dimensions ,mm	119 X 54 X 31

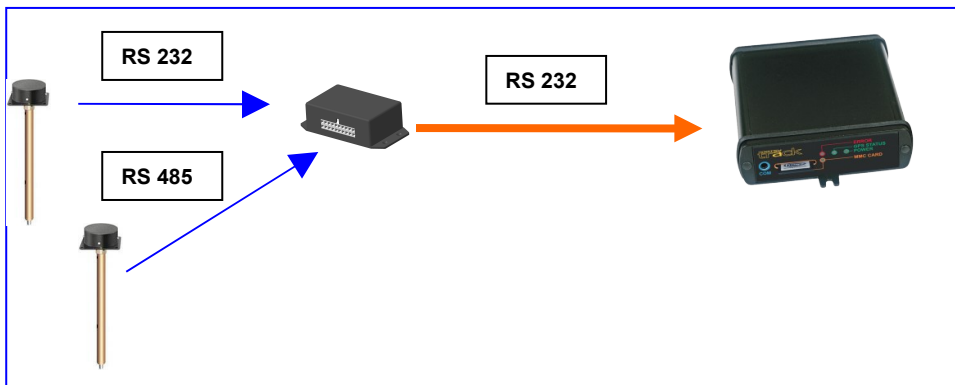
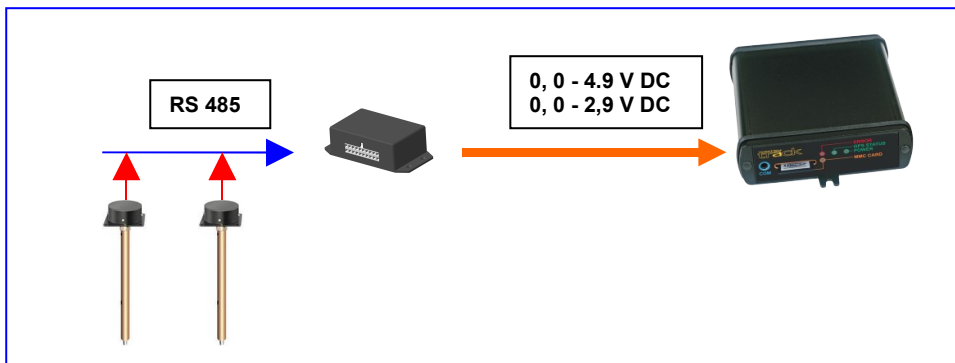
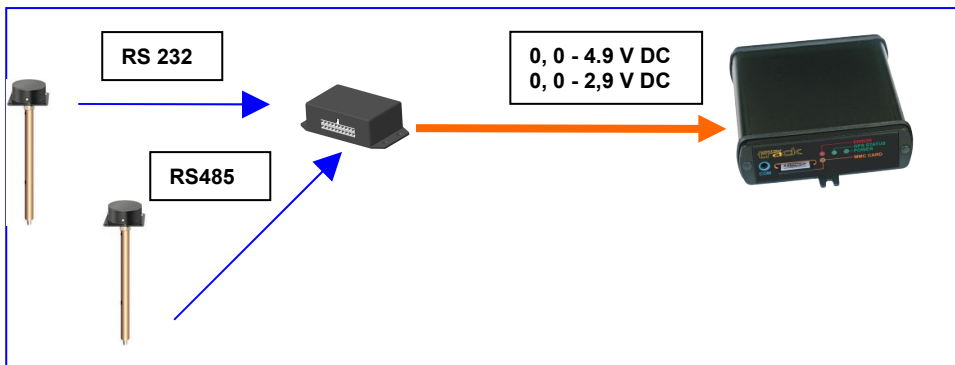
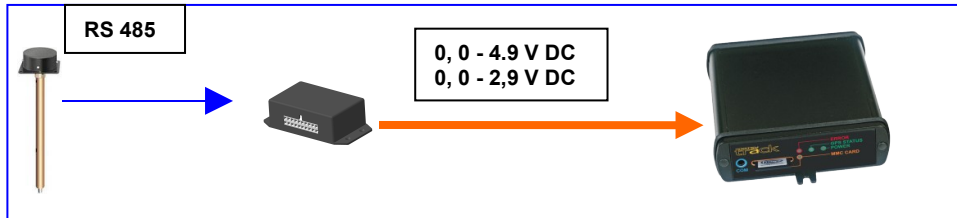
**Typical applications**



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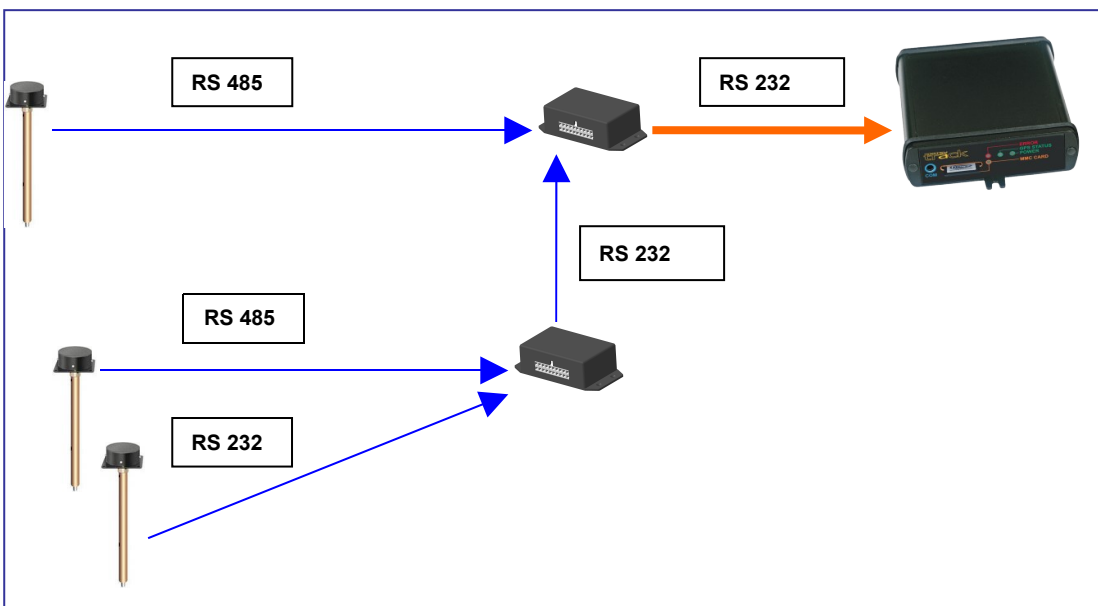
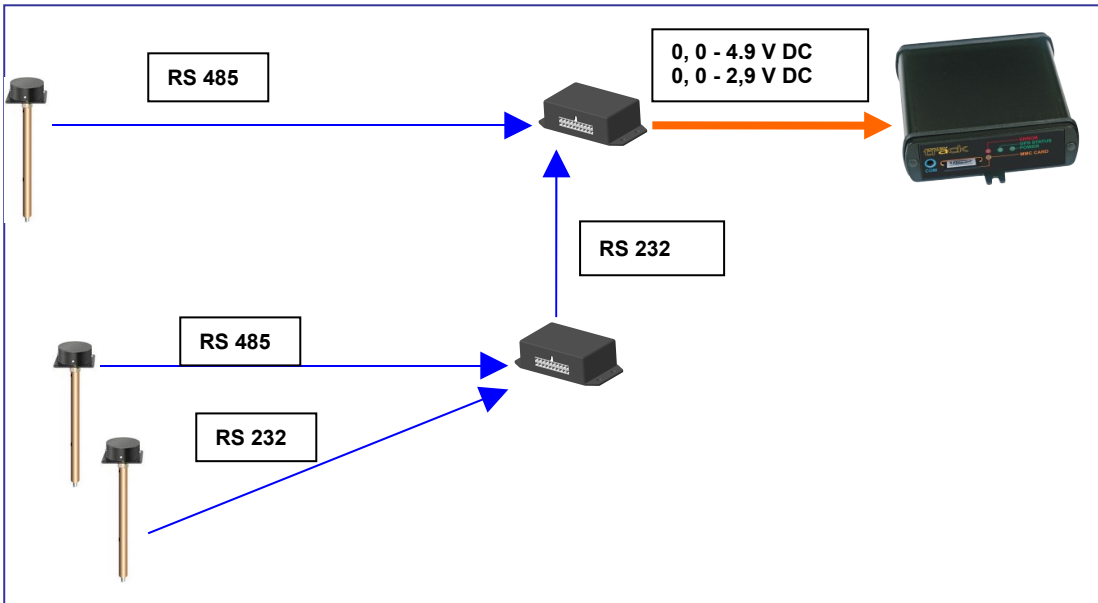
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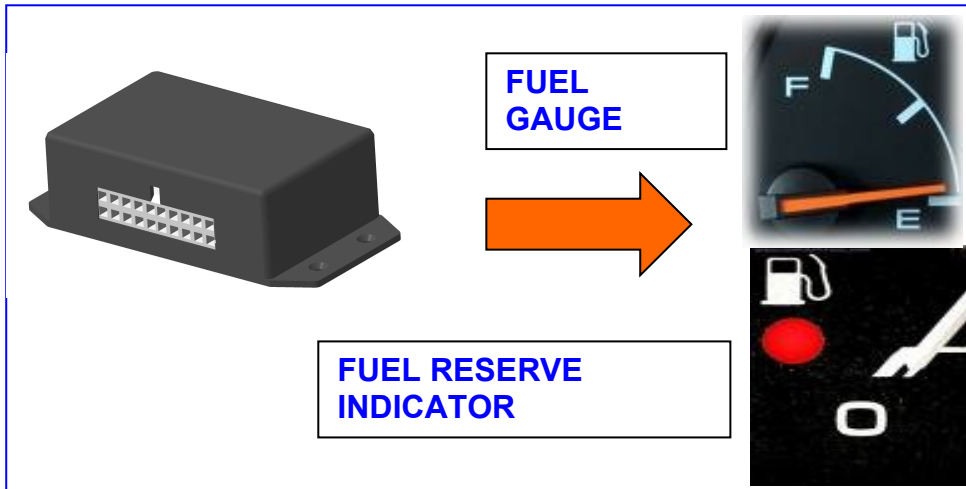
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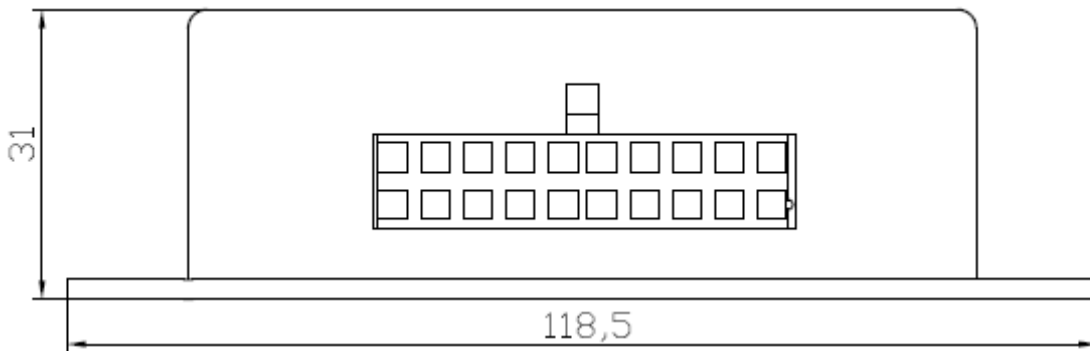
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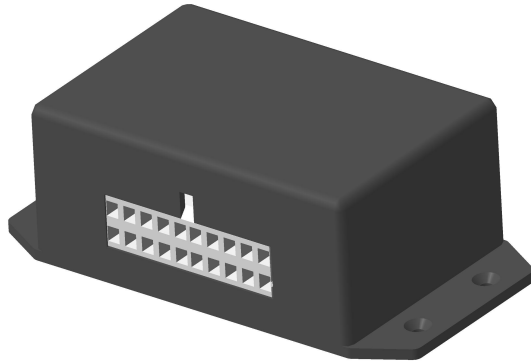
General view



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**3 D view.**



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