

Prepared (also subject responsible if other)		No.		
		1301-HMP062/x		
Approved	Checked	Date	Rev	Reference
			B	

Technical description Driver Panel

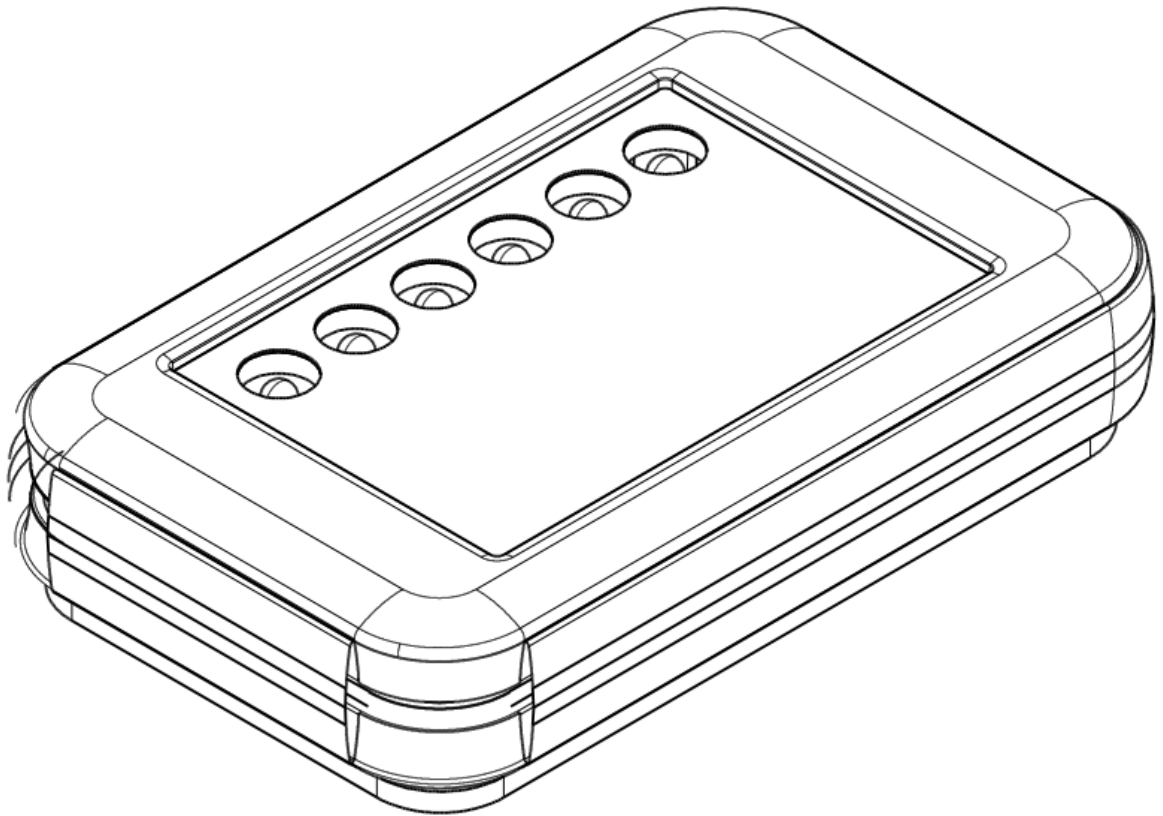


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1 General description

1.1 Features

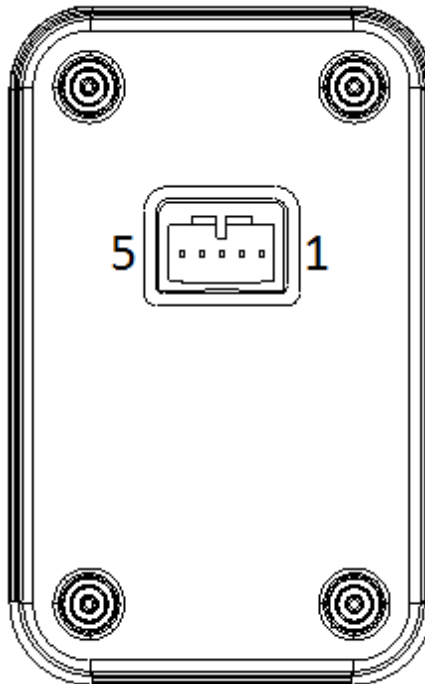
- Six individual LEDs
- High volume buzzer
- RS-232 communication interface
- All hardware functions controllable through software protocol over RS-232
- Possible to set backlight (green)
- Intensity of LEDs software controllable
- Configurable continuous blink of any LED
- Configurable continuous beep on the buzzer

1.2 Intended use

Intended to be used as a panel on the dashboard in the bus to indicate driving performance. Can be used instead of a TFT-screen, or as a complement to a TFT-screen. All functions to be indicated on the panel are controlled by the vehicle computer.

2 Connector

2.1 Connection layout



2.2 Connector pin-out

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Pin	Function	Comment
1	RS-232 RX	RS-232 input, connect to host computer output
2	RS-232 TX	RS-232 output, connect to host computer input
3	Ground	Ground for RS-232 serial port
4	Ground	System ground to Input Voltage
5	Input voltage	12 or 24 V DC

Default baud rate for the serial port is 19 200 bit/s 8-N-1 with no flow control.

2.2.1 Unit with green connector

Mating connector: JAE IL-AG5-5S-S3C1

Connector on the PCB: JAE IL-AG5-5P-S3T2

2.2.2 Unit with blue connector

Mating connector: JAE IL-AG5-5SK-S3C1-LB

Connector on the PCB: JAE IL-AG5-5PK-S3T2-LB

3 Power

3.1 Power consumption

No LEDs on: ~7 mA @ 24 V

All LEDs full backlight: ~29 mA @ 24 V

All LEDs full backlight and buzzer on: ~40 mA @ 24 V

Note: Power consumption is depending on how many LEDs are on, and which intensity they are set to.

3.2 Input voltage

Input voltage range: 8 – 32 V DC

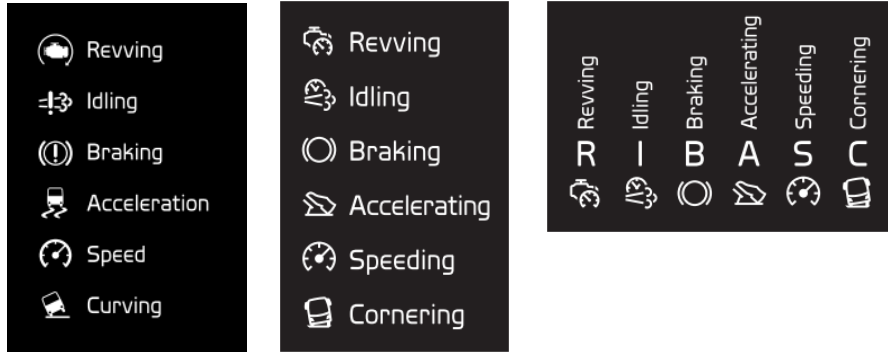
4 Buzzer

The buzzer can be set to on, off or continuous pulse with selectable duty cycle.

5 LED indicators

Six LED indicators can be set individually over RS-232. They can be set to on, off or continuous pulse with selectable duty cycle. The intensity of the LEDs can be set individually.

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5.1 LED backlight

Whenever the LED is off, it can be set to backlight instead so that the symbol is visible even when it's dark. The backlight isn't configurable individually, either all LEDs has backlight or none. The intensity of the backlight is software controllable.

6 Enclosure

Material: Plastic housing.

Dimensions: 82.37 x 51.17 x 17.80 mm (main body)

82.37 x 51.17 x 27.05 mm (main body including connector)

Weight: 65 g

IP-class: IP54

7 Mounting

The Driver Panel unit shall be installed on the dashboard using the included adhesive. No water, other fluid or dust is allowed to get in contact with the connector side of the unit.