

Component Technical Specification

Instrument Cluster

v 1.2

2017-03-06

Revision history

Version	Description	Date
1.2	Document formatting	2017-03-06
1.1	Reviewed, minor findings fixed	2017-02-16
1.0	Initial draft version	2017-02-07

Functional description – Instrument Cluster

The Instrument Cluster (IC) is responsible for displaying information and warnings for the driver. The standard information, the vehicle speed on an analogue speedometer, the rotation speed of the motor on an analogue tachometer, and the vehicle warnings shall be displayed.

Beside the standard information, the Instrument Cluster shall display the state of the following elements:

- a) Automatic gearshift
- b) Turn signal
- c) Headlights

The Instrument Cluster shall display the following information of from the Adaptive Cruise Control (ACC):

- a) Active state of the feature
- b) Suspended state of the feature
- c) Vehicle detection
- d) Set vehicle speed
- e) Set safety distance (timegap)

The Instrument Cluster shall display the following information from the Emergency Braking System (EBS):

- a) Collision warning
- b) Partial braking
- c) Automatic full braking

The Instrument Cluster shall display the following information from the Traffic Sign Recognition (TSR):

- a) Traffic signs for valid limitations

The Instrument Cluster shall display the following information from the Park Pilot (PP):

- a) Active state of the feature
- b) Detected parking lot location
- c) Obstacle distances

The Instrument Cluster shall display the following information from the Lane Keeping Support (LKS):

- a) Active state of the feature
- b) Lane departure warning