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## **Scope of document:**

This document specifies requirements on the module ADC Driver.

### **Functional overview:**

The ADC Driver provides readings from different types of sensors that sends analog values.

The following expressions are used within the ADC driver

Expression	Explanation
Channel_number	Represents multiple ADC channels that are grouped by hardware and accessible synchronously.
	and accessible synchronously.  Example: CH0

### **Functional Requirements:**

#### **Configuration and initialization:**

1- [SRS\_ADC\_900] The configuration and initialization of the port structure in the ADC driver.

Type:	Valid
Description:	The DIO driver shall allow the static configuration of the following symbolic names:  • Channel Number
Rationale:	
Use cases	
Dependencies	
Supporting material	

### **Normal operation:**

1- [SRS\_ADC\_901] The ADC Driver shall provide a service that reads a data word from the assigned channel.

Type:	Valid
Description:	The ADC Driver shall provide a service that reads a data word from the assigned channel.
Rationale:	Basic functionality
Use cases	Read access to the selected ADC channel
Dependencies	General read behaviour
Supporting material	