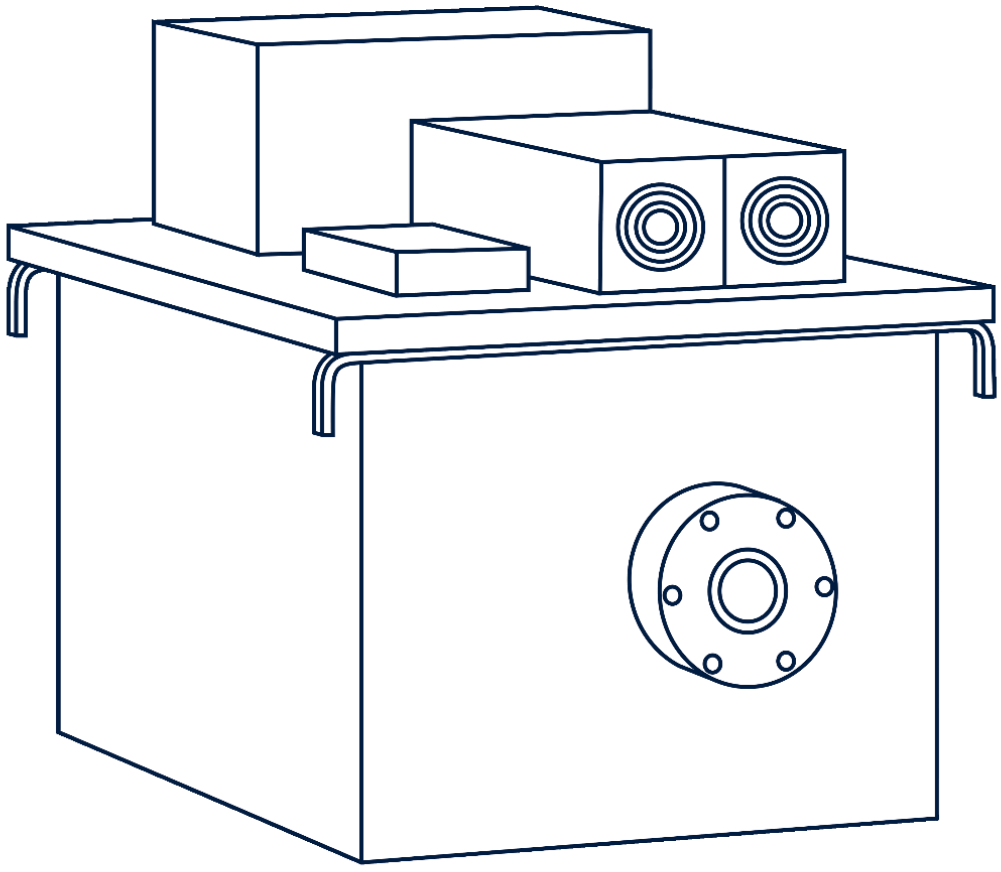
Integrator manual

T3 Status LED

Details of status signaling through LED



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Content

1 Introduction

This document describes the status LEDs in the system. There are four LEDs on the Interface-Controller and four LEDs on each Powercell to show the actual state on the components.

2 Interface Controller (IFC)

2.1 LED A1: Power Status

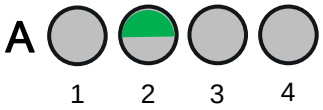
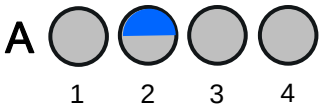
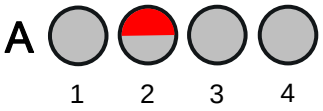
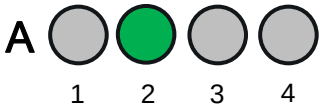
The LED A1 cannot be changed has it is connected to Supply Voltage.

	Description
A 1 2 3 4	**Power** The green LED shows that the IFC is powered.

2.2 LED A2: User Space Status

The purpose of this LED is to show the status of the applications and indicates to the user if the applications could be started correctly or not.

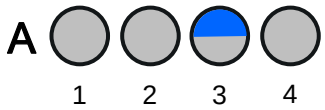
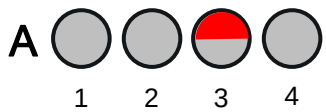
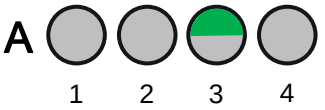
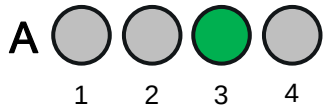
***NOTE**: This LED is an RGB-LED and may show different states at the same time.*

	Description
	**Booting in Normal Operation** When the system is booting in normal operation, the LED A2 blinks green.
	**Booting Special Mode** When the system is booting in special mode (initial-setup / update), the LED A2 blinks blue.
	**Boot Failed / Severe Error** When the system couldn't boot correctly or at a detected severe operating error: • the LED A2 blinks red (5Hz @ boot error of the basics) • the LED A2 blinks red (2Hz @ general boot error) • the LED A2 blinks red (1Hz @ severe error present)
	**Boot Success** When the system could boot correctly, the LED A2 is turned green.

2.3 LED A3: User Feedback

The purpose of this LED is to give a feedback to the user when he requests an operation to be done on the IFC e.g. by using the buttons S1 or S2 or other triggers.

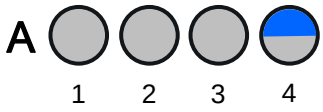
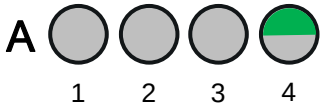
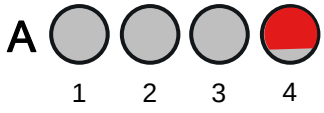
***NOTE**: This LED is an RGB-LED and may show different states at the same time, e.g. WebUi is started and T3 update = steady green and blinking blue.*

	Description
	**T3 update** The LED blinks blue when an update is being performed.
	**T3 update / Report creation failed** The LED blinks red when an update or report creation failed.
	**Report creation** The LED blinks green when a report is being created.
	**WebUI is started** The LED is steady state green if the WebUI is started up.

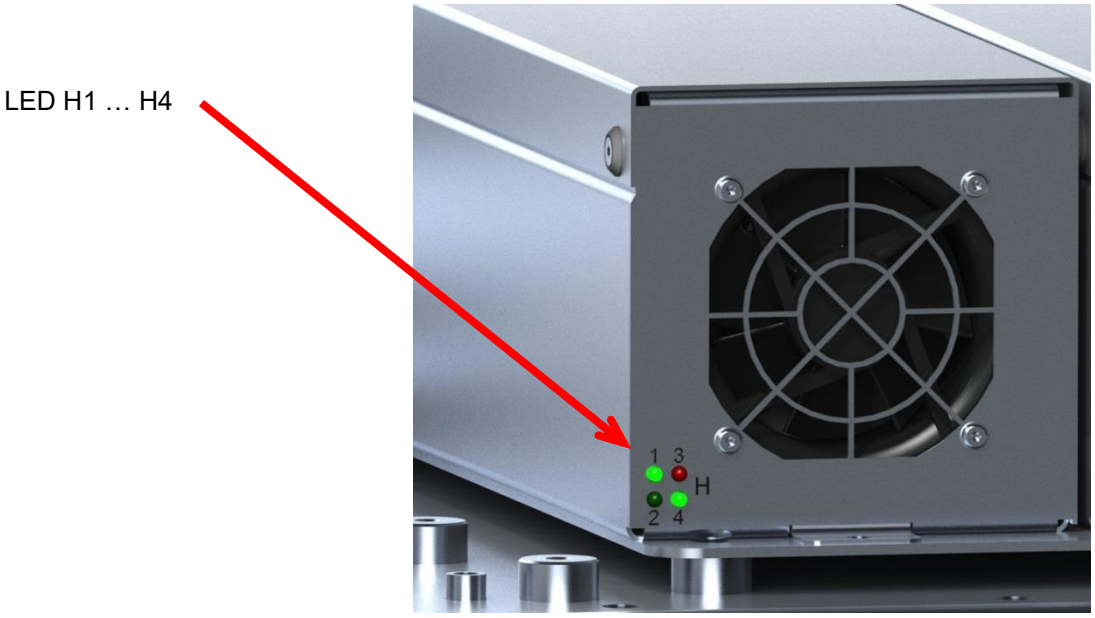
2.4 LED A4: Linux Kernel Status

The purpose of this LED is to show the kernel status.

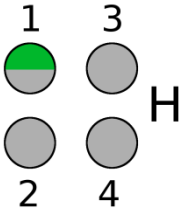
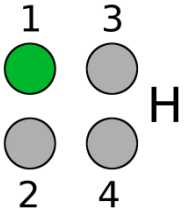
***NOTE**: This LED is an RGB-LED and may show different states at the same time.*

	Description
	**CPU Supervision** The LED blinks blue when the CPU is woken up.
	**Kernel Heartbeat** The LED blinks green to show the kernel heartbeat. Faster it blinks, more the CPU is loaded.
	**Invalid date time** When the system date and time is invalid, the LED blinks red (at 10Hz).

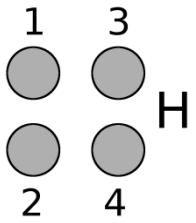
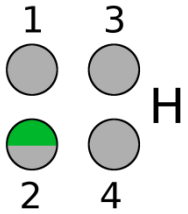
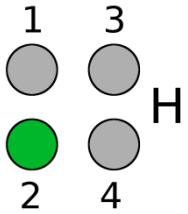
3 Powercell (POC)



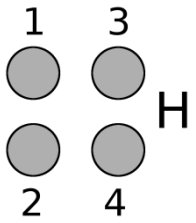
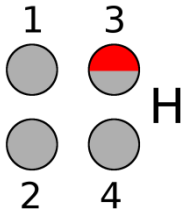
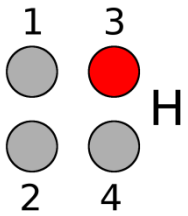
3.1 LED H1: CAN Run Status

	Description
	**Stopped / Pre-Operational / Firmware Download** • CAN Communication State Stopped: LED is only flashing from time to time. • CAN Communication State Pre-Operational: LED is blinking. • Firmware download: LED is blinking.
	**Operational** The LED is on if CAN communication is operational.

3.2 LED H2: Configuration Status

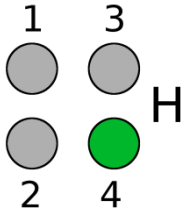
	Description
	**No Configuration** POC has no configuration.
	**Invalid Configuration** POC has an invalid configuration.
	**Configuration Ok** POC has a valid configuration. Is ready for running.

3.3 LED H3: CAN Error Status

	Description
	**CAN Ok** CAN communication is okay.
	**CAN Error** CAN communication does have an error. Note: LED is blinking also during the start-up of system a short while as long as IFC is booting. This is a normal behavior.
	**CAN Bus Off** The LED is on if CAN bus is off.

3.4 LED H4: Power Status

Software cannot change LED H4 as it is connected to auxiliary Power.

	Description
	**Power** The LED shows that POC has power.

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