

## Error - LED

The lighting up or blinking of the red ERROR-LED signals a severe error. It glows continuously if the processor is at a “standstill” (e.g., due to low supply voltage). It blinks if the processor can still operate despite these errors. If the ERROR-LED blinks, the LEDs for USB, SER, and Prog1 / Prog2 display an error code:

Error	Prog2	Prog1	USB	SER	IR	Description
On	X	X	X	X	X	Processor at a “standstill, supply voltage possibly too low?
On	On	On	Off	Off	On	Status directly after activation if the accumulator is empty!
Blinking	Off	off	off	off	on	Power-on error: internal RAM test 1
Blinking	Off	off	off	on	off	Power-on error: internal RAM test 2
Blinking	Off	off	off	on	on	Power-on error: internal RAM test 3
Blinking	Off	off	on	off	on	Power-on error: External RAM test 1
Blinking	Off	off	on	on	off	Power-on error: External RAM test 2
Blinking	Off	off	on	on	on	Power-on error: External RAM test 3
Blinking	Off	on	off	off	off	Power-on error: boot loader: contact service!
Blinking	Off	on	off	off	on	Power-on error: firmware: contact service!
Blinking	Off	on	off	on	off	Power-on error: Supply voltage for “EMERGENCYOPERATION-Firmware update” is too low
Blinking	Off	Blinking	off	off	on	Power-on error: firmware: By simultaneously pressing the pushbuttons “Port” and “Prog,” the most recent firmware update can be repeated (“EMERGENCYOPERATION-Firmware update”). To start, press the pushbuttons for approximately 2 seconds until the IR-LED light blinks, then release.
Blinking	Off	Blinking	off	off	Blinking	Power-on error: firmware: By simultaneously pressing the pushbuttons “Port” and “Prog,” the flash can be recalled; now release pushbuttons for the start of the firmware update in emergency mode
Blinking	Off	off	off	off	Blinking	Program error: unknown command 1
Blinking	Off	off	off	Blinking	off	Program error: unknown command 2
Blinking	Off	off	off	Blinking	Blinking	Program error: unknown command 3
Blinking	Off	off	off	off	off	Firmware update: error while deleting flash
Blinking	Off	off	Blinking	off	off	Internal error I1
Blinking	Off	off	Blinking	off	Blinking	Internal error I2
Blinking	Blinking	Blinking	off	off	X	Firmware update error: contact service!

X = status unknown