

# SIEMENS

## SIMATIC

### Distributed I/O

## Product Information for the ET 200S IM 151-1 STANDARD, IM 151-1 HIGH FEATURE Manuals

### Product Information

## LED display of the configuration and parameter assignment errors

### Properties

The configuration and parameter assignment errors of the ET 200S distributed I/O system are output at the interface module by means of the LEDs group error **SF** (red) and bus error **BF** (red).



### Requirements

- The function is available for the following interface modules from the specified firmware version on:
  - IM151-1 STANDARD (6ES7 151-1AA05-0AB0): FW Version V2.2.3
  - IM151-1 HIGH FEATURE (6ES7 151-1BA02-0AB0): FW Version V2.2.2
- The current firmware can be downloaded from Service&Support on the Internet at:  
<http://www.siemens.com/automation/service&support>

### Mode of operation

The information about the cause of the problem is determined by means of the LED fault display. After an announcement by means of a flashing signal, the respective error type and after that the error location / error code are displayed.

The LED fault display of the configuration and parameter assignment errors

- Is activated both during POWER ON and during operation.
- Takes precedence over all other states that are displayed by the SF and BF LED.
- Remains activated until the cause of the problem has been eliminated.

After a change in the ET 200S configuration, a POWER-OFF / POWER ON may be required at the interface module.

Steps	Description
1	LEDs SF and BF flash 3x at 0.5 Hz Announcement of error type
2	LED BF flashes at 1 Hz Display of the error type (decimal)
3	LEDs SF and BF flash 3x at 2 Hz Announcement of the error location / error code
4	LED SF flashes at 1 Hz Display of the decade (decimal) of the error location / error code
5	LED BF flashes at 1 Hz Display of the unit position (decimal) of the error location / error code
6	Repetition of 1 - 5 until the cause of the problem has been eliminated.

## Error display

Error type (BF)	Error location (SF/BF)	Cause of the problem	Measure
1	01 to 63 (slot)	<p><b>Communication interruption</b> Displays the first slot at which no I/O module is recognized.</p> <ul style="list-style-type: none"> <li>• Missing I/O module during POWER ON or several I/O modules are missing during operation.</li> <li>• Interruptions at the rear panel bus</li> <li>• Short-circuit at the rear panel bus ("01" is output as the slot)</li> <li>• Termination module missing If the termination module is missing, the number of inserted I/O modules + 1 is output (if there is no set configuration)</li> </ul>	Check the configuration of the ET 200S.
2	01 to 63 (slot)	<p><b>Termination module not recognized</b> This error type is output if there is a set configuration and the slot at which an I/O module is no longer recognized is equal to (number of modules of the set configuration +1).</p>	Install the termination module.
3	01 to 63 (slot)	<p><b>I/O module</b> The configured structure of the ET 200S does not match the actual structure of the ET 200S. The first slot that displays a configuration error (missing module, incorrect module module fault) is displayed. This error is only output if the parameter "Operation at preset &lt;=&gt; actual configuration" is locked.</p>	Check the structure or the configuration of the ET 200S, whether a module is missing or defective, or whether an unconfigured module has been inserted.

The following errors can only occur if you have configured the ET 200S at a master from a different supplier or by using the GSD file:

Error type (BF)	Error location, error code (SF/BF)	Cause of the problem	Measures
4	01	<p><b>Configuration error at the option handling</b> Option handling has been configured but no power module was configured for options handling.</p>	Change the configuration.
	02 to 63 (slot)	<p>Option handling has been configured but more than one power module was configured for options handling. The slot of the second power module that has option handling is displayed.</p>	
5 <sup>1</sup>	01	<p><b>General parameter assignment error</b> The number of module parameter blocks in the parameter assignment telegram does not agree with the number of identifiers in the configuration telegram.</p>	Correct the configuration.
	02	<p>The maximum address area (inputs and outputs) of the interface module has been exceeded.</p>	
	03	<p>Incorrect structure of the parameter assignment telegram.</p>	

<sup>1</sup> You prevent this error when configuration is carried out with STEP 7 and it is only possible if other configuration tools are used.