






Interrupt, error and system messages

9.1 Diagnostics with LED display

IM 153-1

Table 9-1 Status and error displays of the IM 153-1

| LEDs | | | Meaning | Remedy |
|--|-----------------------------|-------|--|--|
| SF | BF | ON | | |
| SF  | SF Group error | Red | | |
| BF  | BF Error on the PROFIBUS DP | Red | | |
| ON  | ON Supply voltage available | Green | | |
|  | | | | |
|  | | | | |
| off | off | off | No voltage on the IM 153-1 or there is a hardware fault with the IM 153-1. | Switch on the power supply module or replace the IM 153-1. |
| * | * | On | There is voltage on the IM 153-1. | – |
| * | Flashing | On | IM 153-1 is incorrectly configured - no data exchange is taking place between the DP master and the IM 153-1. Causes: <ul style="list-style-type: none"> Configured and set PROFIBUS address is incorrect Faults on the bus | <ul style="list-style-type: none"> Check the IM 153-1. Check the configuration and parameterization. Check the PROFIBUS address on the IM 153-1 and in the STEP 7 project. Check the length cable length with reference to the Baud rate. Check the settings for the terminating resistors. |
| * | On | On | no connection to the DP master (search Baud rate) Causes: <ul style="list-style-type: none"> the bus communication via PROFIBUS DP to the IM 153-1 has been interrupted | Check the bus configuration. <ul style="list-style-type: none"> Check to see if the bus connector is inserted properly. Check whether the bus cable to the DP master is defective. Switch off and on the on/ off power switch for the 24 V DC on the power supply module. |
| On | Flashing | On | The configured structure of the ET 200M doesn't tally with the actual structure of the ET 200M | Check the PROFIBUS address and the configuration of the ET 200M to see if a module is missing, faulty or if there is a non-configured module. Check the configuration (e.g. with <i>COM PROFIBUS</i> or <i>STEP 7</i>). |

9.1 Diagnostics with LED display

| | | | | |
|----|--|----|--------------------------|-------|
| SF | | SF | Group error | Red |
| BF | | BF | Error on the PROFIBUS DP | Red |
| ON | | ON | Supply voltage available | Green |
| | | | | |
| | | | | |

| LEDs | | | Meaning | Remedy |
|------|-----|----|---|---|
| SF | BF | ON | | |
| On | off | On | inadmissible PROFIBUS address Is the SF LED of an SM/ FM also lit? • If so: Error or diagnosis in an S7-300 module • If not: IM 153-1 is faulty. | On the IM 153-1 set a valid PROFIBUS address (1 to 125) Check the SM/ FM with the diagnostics. Replace the S7-300 module or the IM 153-1 or contact your Siemens representative. |
| off | off | On | There is data exchange between the DP master and the ET 200M. The preset configuration and actual configuration of the ET 200M match. | – |

* not relevant

IM 153-2

Table 9-2 Status and error displays of the IM 153-2

| | | | | | |
|----------------------|--------------|--------------|-----------|---|--------|
| IM 153-2AA02/ -2AB01 | IM 153-2Bx00 | IM 153-2Bxx1 | | | |
| SF | SF | SF | SF | Group error | Red |
| BF | BF | BF 1 | BF / BF 1 | Error on the PROFIBUS DP | Red |
| ACT | | BF 2 | BF 2 | Error on the underlaid bus (irrelevant for ET 200M) | Red |
| ON | | | ACT | Module active (only in redundant mode) | Yellow |
| | ACT | ACT | ON | Supply voltage possible | Green |
| | ON | ON | ON | Supply voltage possible | Green |

| LEDs | | | | Meaning | Remedy |
|------|----------------|-----|-----|--|--|
| SF | BF/ BF1 | ACT | ON | | |
| off | off | off | off | No voltage on the IM 153-2 or there is a hardware fault with the IM 153-2. | Switch on the power supply module or replace the IM 153-2. |
| * | * | * | On | There is voltage on the IM 153-2. IM 153-2 is functioning. | – |
| On | off | off | off | IM 153-2 is undergoing a hardware reset after switching on | – |
| On | On | On | On | Hardware test after switching on | – |
| On | On | off | off | The operating system update is running | – |
| off | flashes 0.5 Hz | off | off | The operating system update has concluded successfully | with IM 153-2Bx00: remove the SIMATIC Micro Memory card |