

## Table of contents

- Sercos protocol: Device Status (S-Dev) (0x2D00:0C / S-0-1045 / --)

## Sercos protocol: Device Status (S-Dev) (0x2D00:0C / S-0-1045 / --)

### Function

This parameter displays the internal device status word. It is cyclically transferred by the slave in Sercos phase 1 and higher phases and can be read for diagnostic purposes.

See also “Sercos”

### Structure

#### Device status word

Bit	Description/function	Comment
1	<b>Current error</b> <b>0:</b> Not clearable <b>1:</b> Clearable	
4	<b>Parameterization level:</b> <b>1:</b> Parameterization level 1 with active sub-device	
5	<b>Change bit commands</b>	
6	<b>Sub-device/device warning (C2D):</b> e.g.: Warning temperature of power section etc. The bit is reset automatically once the cause of the warning has been eliminated.	
7	<b>Sub-device/device error (C1D):</b> e.g.: Switchover due to power section overtemperature etc. <ul style="list-style-type: none"><li>■ Slave remains in current phase</li><li>■ Connection data are continued to be copied</li><li>■ Service channel possible</li><li>■ Delete via S-0-0099 (/redirect/patternMatch?code=S-0-0099&amp;redirectOrigin=ID1769533_91193932)</li></ul>	

8 **Bit 8 Bus-Slave-Valid:**

**0:** Data of Sercos telegrams are not processed by the slave

**1:** Data of Sercos telegrams are processed by the slave

9 **Err-Con (connection error):**

**1:** Consumer signals an error in a connection

11/10 **Status at the inactive port (for hotplug/redundancy):**

**Bit 13/12 = 01 or 10:**

**00:** "Fast forward" at either port

**01:** "Loopback and forward" for P-telegram

**10:** "Loopback and forward" for S-telegram

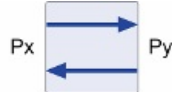
**11:** NRT mode

**Bit 13/12 = 00 or 11:**

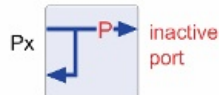
Always **00**

13/12 **Actual topology:**

**00:** Fast forward  
on both ports



**01:** Loopback and Forward  
for P-telegram



**10:** Loopback and Forward  
for S-telegram



**11:** NRT mode



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14 **Topology handshake of the slave:**

**0->1 or 1->0:** Slave has applied command topology. Result of application attempt is mapped in bit 13/12.

15 **Communication warning interface (Warn-IF):**

Number of allowed MST failures has exceeded the value of "S-0-1003 (/redirect/patternMatch?code=S-0-1003&redirectOrigin=ID1769533\_91193932)" by half.