

Data exchange

In the first step, the data exchange takes place only after the standard DPV0 (circular data exchange)

No device-specific diagnostic data are provided.

Construction of the telegram master(SPS)- 7 Slave(CM5x)

Byte	Format	Description
0..1	UINT ₁₆	Trigger 1 Canal 1, SP-H
2..3	UINT ₁₆	Trigger 1 Canal 1, SP-L
4..5	UINT ₁₆	Trigger 2 Canal 1, SP-H
6..7	UINT ₁₆	Trigger 2 Canal 1, SP-L
8..9	UINT ₁₆	Trigger 1 Canal 2, SP-H
10..11	UINT ₁₆	Trigger 1 Canal 2, SP-L
12..13	UINT ₁₆	Trigger 2 Canal 2, SP-H
14..15	UINT ₁₆	Trigger 2 Canal 2, SP-L
16..17	UINT ₁₆	Trigger 1 Canal 3, SP-H
18..19	UINT ₁₆	Trigger 1 Canal 3, SP-L
20..21	UINT ₁₆	Trigger 2 Canal 3, SP-H
22..23	UINT ₁₆	Trigger 2 Canal 3, SP-L
24	BYTE	HV-ON Canal 3

Construction of the telegram Slave(CM51)-7 master(SPS)

Byte	Format	Description	
0..1	UINT ₁₆	Measured value Canal 1, THERMOVAC	
2..3	UINT ₁₆	Measured value Canal 2, THERMOVAC	
4..5	UINT ₁₆	Measured value Canal 3, PENNINGVAC	
6	BYTE	Status / Error report Canal 1	
7	BYTE	Status / Error report Canal 2	
8	BYTE	Status / Error report Canal 3	

Calculation rule for pressure value in mbar: $p = 10^{(\text{measurand}/4096-12)}$

Status/Error report

0 = Measurement OK

1 = Measurement < Measurement range

2 = Measurement > Measurement range

3 = Measurement considerable < Measurement range (Err Lo)

4 = Measurement considerable > Measurement range (Err Hi)

5 = Sensor off (S oFF)

6 = HV on (HU on)

7 = Sensor-Error (Err S)

9 = no Sensor (no Sen)

10 = no on or off switching point (notriG)

12 = Pirani-Error (Err Pi)

There are two modules in the GSD file.

Modul1 only telegram Slave(CM51) -7 Master(SPS)

Modul2 telegram Master(SPS) -7 Slave(CM51)
telegram Slave(CM51) -7 Master(SPS)