SIEMENS

SIMATIC

Process Control System PCS 7 Connecting TM I/O to PCS 7

Manual

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6DS1605-8BA	Binary output 16 Relays	
6DS1607-8AB	Count pulse input 8 PT	5)
6DS1613-8AB-2	Dosing meter 2-channel operation	3) 5)
6DS1613-8AB-4	Dosing meter 4-channel operation	3) 5)
6DS1613-8BB-2	Dosing meter 2-channel operation	3) 5)
6DS1613-8BB-4	Dosing meter 4-channel operation	3) 5)
6DS1615-8AA	Binary input 48 24 V/48 V (INT); (version ≥ 4)	
6DS1620-8AA	Binary input 8 NO contacts	
6DS1621-8AA	Binary input 8 BERO	
6DS1700-8AA	Analog input 8 SV T	
6DS1700-8AB	Analog input 8 SV T	
6DS1700-8BA	Analog input 8 SV T	
6DS1701-8AA	Analog input 8 HART	
6DS1701-8AB	Analog input 8 HART	
6DS1702-8AA	Analog output 4 PT	
6DS1702-8RR	Analog output 4 PT	
6DS1703-8AB	Measurement point expansion for ”1731”	
6DS1703-8RR	Measurement point expansion for ”1731”	
6DS1713-8AB	Analog input 4	
6DS1717-8AA	Binary calculator module, can be structured	4) 5)
6DS1717-8RR	Binary calculator module, can be structured	4) 5)
6DS1719-8AA	Expansion to ”1717”	
6DS1719-8RR	Expansion to ”1717”	
6DS1720-8AA	Expansion to ”1717”	
6DS1730-8AA	Analog input 8	
6DS1731-8AA	Analog input 4	
6DS1731-8BA	Analog input 4 Thermo	
6DS1731-8EA	Analog input 4 Thermo	
6DS1731-8FA	Analog input 4 Thermo	
6DS1731-8RR	Analog input 4 Thermo	

1) Transparent SIMATIC communication module - extended configuration.
2) These modules can also be configured in windows, by entering a “6DS1310-8AA” for every MNO (”Replacement configuration). In this way you can cover the complete address area (512 or 1024 channels).
3) The text to be entered differs from MLFB (“6DS1613-8BB”).
4) TPM 478 processing time is higher than that of the driver (with 1717= 10/ 18 ms without/with analog values; with 1318/1333 even higher, depending on the load). Therefore, use a slow cycle (e.g. 1 s). Alternative: ”Overload configuration” (refer to the section on processing cycles).
5) With these modules it is imperative that the processing cycle configured in DB 1 is faster than the PLC cycle of the corresponding driver blocks.
6) In most cases the substitute configuration described in Chapter 4.7 must be used for these modules.

The table applies to PCS7/TM as of V1.00. Other modules compatible to the ones mentioned above can be configured by entering the corresponding text from the table.

5.6 I/O modules

Table 5-4 lists all TELEPERM M I/O modules you can operate in a TELEPERM M expansion unit or in an ES 100 K expansion system on PCS7/TM.

Table 5-4 Available TELEPERM M I/O modules

Designation	MLFB	Compatible, approved versions
Controller modules		
S-controller, single-channel	6DS1400-8BA	...-8AA
K-controller, single-channel	6DS1401-8BA	...-8AA
S-controller, dual-channel	6DS1402-8BA	...-8AA
K-controller, dual-channel	6DS1403-8CA	...-8AA;...-8BA;...-8CB
Single control modules		
1 motor or 1 solenoid valve	6DS1500-8BA	...-8AA
1 positioning drive without RM	6DS1501-8BA	...-8AA
1 positioning drive with RM	6DS1501-8BB	...-8AB
Motors/solenoid valve, 3-channel	6DS1502-8BA	...-8AA
Positioning drives, 3-channel	6DS1503-8BA	...-8AA
4 control devices + 1 idle position	6DS1504-8AA	
8/4 control devices + 2 idle positions	6DS1505-8AA	
Calculator modules		
Binary calculator module	6DS1717-8AA	...-8RR
Binary expansion module	6DS1719-8AA	...-8RR
Analog expansion module	6DS1720-8AA	
Signal modules/BE		
16 BE	6DS1600-8AA	
48 BE	6DS1601-8BA	...-8AA;...-8AC
32 BE	6DS1602-8BA	...-8AA
48 BE, 24 VDC/48 VDC	6DS1615-8AA	
8 changeover contacts	6DS1620-8AA	
8 proximity switches	6DS1621-8AA	
Signal modules/BA		
32 BA	6DS1603-8BA	...-8AA;...-8AB;...-8RR
16 BA	6DS1604-8AA	
16 Relays	6DS1605-8BA	...-8AA