SIEMENS

CB 1241 COMMUNICATION BOARD RS485

Function

On the Communication Board CB 1241 RS 485, the following standard protocols are available:

• ASCII:

For interfacing to third-party systems with simple transmission protocols, e.g. protocols with start and end characters or with block check characters. The interface handshake signals can be queried and controlled via the user program.

Modbus:

For communication according to the Modbus protocol with RTU format:

- Modbus Master:
 - Master-slave interfacing with SIMATIC S7 as master.
- Modbus slave:
 - Master-slave interfacing with SIMATIC S7 as slave; message frame traffic from slave to slave not possible.
- USS drive protocol:
 - Instructions for connection of USS protocol drives are specifically supported. In this case, drives exchange data over RS485. It is then possible to control these drives, and to read and write parameters.

Additional drivers can also be downloaded.

Parameterization

The parameterization of the Communication Board CB 1241 is particularly user-friendly and simple with STEP 7 Basic: The user specifies the properties of the module by means of a parameterization environment integrated into STEP 7 Basic.

Technical specifications

6ES7 241-1CH30-1XB0
CB 1241 RS485
50 mA
1.5 W
Yes
Yes
0.3 m; five times, in dispatch package
-40 °C to +70 °C
1080 to 660 hPa

Mechanical and climatic conditions	
during operation	
Climatic conditions in operation	
•Temperature	
	0 °C to 55 °C horizontal installation 0 °C
Permissible temperature range	to 45 °C vertical installation
remissible temperature range	5°C to 55°C, 3°C / minute
Denne in this term nectors of the nector	3 C to 33 C, 3 C / Illinute
• Permissible temperature change	
•Air pressure acc. to IEC 60068-2-13	
	1080 to 795 hPa
 Permissible air pressure 	
•Pollutant concentrations	
	S02: < 0.5 ppm; H2S: < 0.1 ppm; RH <
• SO2 at RH < 60% without	60% condensation-free
condensation	
Degree and class of protection	
IP20	Yes
Standards, approvals, certificates	
CE mark	Yes
C-TICK	Yes
FM approval	Yes
Mechanics/material	
Type of housing (front)	
•Plastic	Yes