## **SIEMENS**

## Data sheet

## 6ES7870-1AB01-0YA0

SIMATIC S7, MODBUS Slave V3.1 single license for 1 installation R-SW, SW and DOCU on CD, HW dongle, Class A, 3 languages (de, de, fr, en fr), executable in STEP 7 V4.02 or higher, reference hardware: CP 341 and CP 441-2



Figure similar

Operating systems		
Runs under operating system		
• Windows 9x	No	
<ul> <li>Windows ME</li> </ul>	No	
<ul><li>Windows NT 4.0</li></ul>	No	
• Windows 2000	No	
<ul><li>Windows XP</li></ul>	Yes	
Software		
Software class	A	
Runtime software		
Target system	CP 341 AND CP 441-2	

Yes

Yes

Adjustable parameters

master possible

• Communications FB instance DB

• Enable of the memory areas writeable by the

• Number of work DB (for FB editing) possible

FB 180, DB 180 (use of a multi-instance)

Block

<ul> <li>Factor for the character delay time</li> </ul>	1 to 10
<ul> <li>Modem operation (ignore filler characters)</li> </ul>	with/without
<ul> <li>RS 485 operation for 2-wire connection</li> </ul>	with/without
<ul> <li>Slave address of the CP</li> </ul>	1 to 255
Transmission rate	300 bit/s to 76 800 bit/s; (TTY to 19 200 bit/s)
<ul> <li>Conversion of Modbus addresses to S7 data areas</li> </ul>	Yes
<ul> <li>Preassignment of receive circuit on application of the X.27 interface module</li> </ul>	Yes
Character frame	Yes
Communication data	
CRC polynomial	X16 + x15 + x2 + 1
<ul> <li>Modbus protocol</li> </ul>	with RTU format
<ul> <li>implemented function codes</li> </ul>	01, 02, 03, 04, 05, 06, 08, 15, 16
<ul> <li>Conversion of Modbus addresses to S7 data</li> </ul>	DB, memory bits, outputs, inputs, times, counters
areas	
<ul> <li>V.24 control and signal cables</li> </ul>	none
Character delay time	3.5 characters or multiples
Authorization/licenses	
• Single license (EL)	Yes
Configuration	
Programming	
Programming language	
— LAD	Yes
— FBD	Yes
— STL	Yes
Documentation	
Languages	
German	Yes
● English	Yes
● French	Yes
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