SIEMENS

ET 200SP, CM PTP CM PTP COMMUNICATION MODUL FOR
SERIAL CONNECTION RS422, RS485 AND RS232, FREEPORT,
3964(R), USS, MODBUS RTU MASTER, SLAVE, 115200 KBIT/S

General information	
Product type designation	ET 200SP CM PtP
Firmware version	
• FW update possible	Yes
Product function	
• I&M data	Yes; I&M0 to I&M3
Engineering with	
• STEP 7 TIA Portal configurable/integrated as of version	V12 / V12
• STEP 7 configurable/integrated as of version	V5.5 SP2 with GSD file
• PROFIBUS as of GSD version/GSD revision	GSD as of Revision 5
• PROFINET as of GSD version/GSD revision	GSDML V2.3

Installation type/mounting	
Rack mounting possible	Yes
Rail mounting possible	Yes

Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 V

permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes

Input current
Current consumption (rated value)	29 mA

Power loss
Power loss, typ.	0.7 W

Address area
Occupied address area
• Inputs	8 byte

1. Interface
Interface types
• RS 485	Yes
• RS 422	Yes
• RS 232	Yes

Interface types
RS 232
• Transmission rate, max.	115.2 kbit/s
• Cable length, max.	15 m
• RS 232 auxiliary signals	RTS, CTS, DTR, DSR, RI, DCD

RS 485
• Transmission rate, max.	115.2 kbit/s
• Cable length, max.	1 200 m

RS 422
• Transmission rate, max.	115.2 kbit/s
• Cable length, max.	1 200 m
• 4-wire full duplex connection	Yes
• 4-wire multipoint connection	Yes

Protocols
Integrated protocols
Freeport
— Telegram length, max.	2 kbyte
— Bits per character	7 or 8
— Number of stop bits	1 or 2 bit
— Parity	None, even, odd, always 1, always 0, any

3964 (R)
— Telegram length, max.	2 kbyte
— Bits per character	7 or 8
— Number of stop bits	1 or 2 bit
— Parity	None, even, odd, always 1, always 0, any

Modbus RTU master	
— Address area	1 to 247, extended 1 to 65535
— Number of slaves, max.	32
MODBUS RTU slave	
— Address area	1 to 247, extended 1 to 65535
Telegram buffer	
• Buffer memory for telegrams	4 kbyte
• Number of telegrams which can be buffered	255

Interrupts/diagnostics/status information	
Diagnostics	Yes
Alarms	
• Diagnostic alarm	Yes
• Hardware interrupt	No
Diagnostic messages	
• Wire-break	Yes
Diagnostics indication LED	
• Monitoring of the supply voltage (PWR-LED)	Yes; green PWR LED
• for module diagnostics	Yes; green/red DIAG LED
• Receive RxD	Yes; Green LED
• Transmit TxD	Yes; Green LED

Potential separation	
between backplane bus and interface	Yes

Permissible potential difference	
between different circuits	75 V DC/60 V AC (base isolation)

Isolation	
Isolation tested with	707 V DC (type test)

Decentralized operation	
to SIMATIC S7-300	Yes
to SIMATIC S7-400	Yes
to SIMATIC S7-1200	Yes
to SIMATIC S7-1500	Yes
to standard PROFINET controller	Yes

Dimensions	
Width	15 mm

Weights	
Weight, approx.	30 g

last modified:	14.05.2016