

SIMATIC S7-1200, COMMUNICATION MODULE CM 1241,
RS422/485, 9 PIN SUB D (FEMALE) SUPPORTS MESSAGE
BASED FREEPORT



Supply voltage	
Rated value (DC)	
• 24 V DC	Yes
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Input current	
Current consumption, max.	220 mA; From backplane bus 5 V DC
Power loss	
Power loss, typ.	1.1 W
Interfaces	
Number of interfaces	1
Interface (physical) RS 422/485 (X.27)	Yes
Point-to-point	
• Cable length, max.	1 000 m
Integrated protocol driver	
— Freeport	Yes
— ASCII	Yes; Available as library function

— Modbus	Yes
— Modbus RTU master	Yes
— Number of slaves, max.	247; slave numbers 1 through 247, per MODBUS network segment maximum 32 devices, additional repeaters needed to expand the network to maximum configuration
— MODBUS RTU slave	Yes
— USS	Yes; Available as library function
Address area	
— Modbus RTU master	1 through 49 999 (Standard Modbus addressing)
— MODBUS RTU slave	1 through 49 999 (Standard Modbus addressing)
Character frame (adjustable)	
— Bits per character	7 or 8
— Number of start/stop bits	1 Start, 1 or 2 Stop
— Parity	None, even, odd, mark, space, any
Interrupts/diagnostics/status information	
Diagnostic functions	Yes
Diagnostics indication LED	
• for status of the outputs	Yes
Degree and class of protection	
Degree of protection acc. to EN 60529	
• IP20	Yes
Standards, approvals, certificates	
CE mark	Yes
cULus	Yes
FM approval	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
Ambient conditions	
Free fall	
• Fall height, max.	0.3 m; five times, in product package
Ambient temperature during operation	
• permissible temperature range	-20 °C to +60 °C horizontal mounting, -20 °C to 50 °C vertical mounting, 95% humidity, non-condensing
• permissible temperature change	5°C to 55°C, 3°C / minute
Ambient temperature during storage/transportation	
• min.	-40 °C
• max.	70 °C
Air pressure acc. to IEC 60068-2-13	
• Operation, min.	795 hPa
• Operation, max.	1 080 hPa
• Storage/transport, min.	660 hPa

• Storage/transport, max.	1 080 hPa
Relative humidity	
• permissible range (without condensation) at 25 °C	95 %
Dimensions	
Width	30 mm
Height	100 mm
Depth	75 mm
Weights	
Weight, approx.	155 g
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