SIEMENS

Data sheet

6AG1137-6AA01-7BA0



SIPLUS ET 200SP CM PTP based on 6ES7137-6AA01-0BA0 with conformal coating, -40...+70 °C, communications module for serial connection RS-422, RS-485 and RS-232, Freeport, 3964 (R), USS, MODBUS RTU master, slave, max. 250 Kbit/s, suitable for BU type A0,

Figure similar

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General information	
Product type designation	CM PtP
Firmware version	
FW update possible	Yes
usable BaseUnits	BU type A0
Product function	
I&M data	Yes; I&M0 to I&M3
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)	31 mA
Current consumption, max.	35 mA
Power loss	
Power loss, typ.	0.7 W
Address area	
Address space per module	
• Inputs	8 byte; performance mode: 32 byte
Outputs	0 byte; performance mode: 32 byte
1. Interface	
Interface types	
• RS 485	Yes
• RS 422	Yes
• RS 232	Yes
 Design of the connection 	Push-in terminal
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. 	250 kbit/s
Cable length, max.	1 200 m; 100 to 1200 m, depending on transmission speed
RS 422	
 Transmission rate, max. 	115.2 kbit/s
 Cable length, max. 	1 200 m

4-wire full duplex connection 4-wire multipoint connection Protocols	Yes Yes
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Protocols	
late and a discount of a second	
Integrated protocols	
Freeport Tologram longth, may	2 khyto: porformance mode: receive data may 24 hyto and and data
— Telegram length, max.	2 kbyte; performance mode: receive data max. 24 byte and send data max. 30 byte
— 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)	2 khyto: porformance mode: receive data recy. 04 hyto and a seed the
— Telegram length, max.	2 kbyte; performance mode: receive data max. 24 byte and send data max. 30 byte
— Bits per character	7 or 8
Number of stop bits Parity	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
	1 to 247, extended 1 to 65535
Number of slaves, max. MODBUS RTU slave	32
— Address area	1 to 247, extended 1 to 65535
— Address area Telegram buffer	T to 271, extended T to 00000
Buffer memory for telegrams	4 kbyte
Number of telegrams which can be buffered	255
Interrupts/diagnostics/status information	
	Yes
Diagnostics function Alarms	165
Diagnostic alarm	Yes
Hardware interrupt	No
Diagnoses	110
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
Isolation	
Isolation tested with	707 V DC (type test)
Ambient conditions	101 V DO (type test)
Ambient temperature during operation • horizontal installation, min.	40 °C: - Tmin (incl. condensation/fract)
•	-40 °C; = Tmin (incl. condensation/frost)
horizontal installation, max. vertical installation, min	70 °C; = Tmax
vertical installation, min. vertical installation, may	-40 °C; = Tmin 50 °C; = Tmax
vertical installation, max. Altitude during operation relating to sea level.	50 O, - IIIIdA
Altitude during operation relating to sea level Installation altitude above sea level, max.	5 000 m
	5 000 m Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin
Ambient air temperature-barometric pressure- altitude	(Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +2 000 m) // Tmin (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m)
Relative humidity	
With condensation, tested in accordance with IEC 60068-2-38, max.	100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation
Resistance	
Coolants and lubricants	
Resistant to commercially available coolants and lubricants	Yes; Incl. diesel and oil droplets in the air
Use in stationary industrial systems	
— to biologically active substances according to EN 60721-3-3	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request

Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 - to chemically active substances according to (severity degree 3); * — to mechanically active substances according to Yes; Class 3S4 incl. sand, dust, * EN 60721-3-3 Against mechanical environmental conditions Yes; Class 3M8 using the SIPLUS Mounting Kit ET 200SP (6AG1193acc. to EN 60721-3-3 6AA00-0AA0) Use on land craft, rail vehicles and special-purpose vehicles Against mechanical environmental conditions Yes; Class 5M2 using the SIPLUS Mounting Kit ET 200SP (6AG1193acc. to EN 60721-3-5 6AA00-0AA0) — against mechanical environmental conditions in Yes; level 1 (Location LE) using the SIPLUS Mounting Kit ET 200SP agriculture acc. to ISO 15003 (6AG1193-6AA00-0AA0) Use on ships/at sea Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna) to biologically active substances according to EN 60721-3-6 Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 - to chemically active substances according to EN 60721-3-6 (severity degree 3); * - to mechanically active substances according to Yes; Class 6S3 incl. sand, dust; * EN 60721-3-6 Against mechanical environmental conditions Yes; Class 6M4 using the SIPLUS Mounting Kit ET 200SP (6AG1193acc. to EN 60721-3-6 6AA00-0AA0) Usage in industrial process technology Against chemically active substances acc. to Yes; Class 3 (excluding trichlorethylene) EN 60654-4 - Environmental conditions for process, Yes; Level GX group A/B (excluding trichlorethylene; harmful gas measuring and control systems acc. to ANSI/ISAconcentrations up to the limits of EN 60721-3-3 class 3C4 permissible); 71.04 level LC3 (salt spray) and level LB3 (oil) Remark Note regarding classification of environmental * The supplied plug covers must remain in place over the unused conditions acc. to EN 60721, EN 60654-4 and interfaces during operation! ANSI/ISA-71.04 Conformal coating . Coatings for printed circuit board assemblies acc. to Yes; Class 2 for high reliability EN 61086 Protection against fouling acc. to EN 60664-3 Yes; Type 1 protection • Military testing according to MIL-I-46058C, Yes; Discoloration of coating possible during service life Amendment 7 • Qualification and Performance of Electrical Yes; Conformal coating, Class A Insulating Compound for Printed Board Assemblies according to IPC-CC-830A 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 Height 73 mm 58 mm Depth **Neights** Weight, approx. 30 g

last modified:

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