



SIPLUS ET200S EM 1SI -25 ... +70 DEGREES C WITH CONFORMAL COATING BASED ON 6ES7138-4DF01-0AB0

Supply voltage	
Load voltage L+	
Rated value (DC)	24 V
Input current	
from backplane bus 3.3 V DC, max.	10 mA
from backplane bus 24 V DC, max.	80 mA ; Typ. 20 mA
Power loss	
Power loss, typ.	1.2 W
Memory	
Standard blocks	5100 byte ; S_SEND 2700, S_RCV 2400, S_XON 2600, S_RTS 2600, S_V24 2700, S_VSTAT 1800, S_VSET 1800
Interfaces	
Number of interfaces	1
RS 422/485	Yes ; RS-422 signals: 5 (TxD(A), RxD(A), TxD(B), RxD(B), PE); RS-485 signals: 3 (R/T(A), R/T(B), PE)
RS 232, cable length shielded, max.	15 m
RS 422/485, cable length shielded, max.	1200 m
Point-to-point	
RS 232C	Yes ; RS 232C signals: 8 (TxD, RxD, RTS, CTS, DTR, DSR, DCD, PE)

Integrated protocol driver	
3964 (R)	Yes
ASCII	Yes
Transmission rate, RS 422/485	
with 3964 (R) protocol, max.	115.2 kbit/s ; half duplex: 110, 300, 600, 1200, 2400, 4800, 9600, 19,200, 38,400, 57,600, 76,800, 115,200 bit/s
with ASCII protocol, max.	115.2 kbit/s ; Full duplex: 110, 300, 600, 1200, 2400, 4800, 9600, 19,200, 38,400, 57,600, 76,800, 115,200 bit/s
Transmission rate, RS232	
with 3964 (R) protocol, max.	115.2 kbit/s ; half duplex: 110, 300, 600, 1200, 2400, 4800, 9600, 19,200, 38,400, 57,600, 76,800, 115,200 bit/s
with ASCII protocol, max.	115.2 kbit/s ; Full duplex: 110, 300, 600, 1200, 2400, 4800, 9600, 19,200, 38,400, 57,600, 76,800, 115,200 bit/s
Character frame (adjustable)	
Bits per character	7 or 8
Number of start/stop bits	1 or 2
Bits per character frame	10
Parity	none, odd, even, any
Number of bytes per PLC sampling cycle	
Data quantity per PLC sampling cycle, receiving	32 byte ; with IM151-1 Standard as of 6ES7 151-1AA04-0AB0; with IM151-1 High Feature as of 6ES7 151-1BA01-0AB0; otherwise 8 bytes
Data quantity per PLC sampling cycle, transmitting	32 byte ; with IM151-1 Standard as of 6ES7 151-1AA04-0AB0; with IM151-1 High Feature as of 6ES7 151-1BA01-0AB0; otherwise 8 bytes
Interrupts/diagnostics/status information	
Diagnostics indication LED	
Receive RxD (green)	Yes
Transmit TxD (green)	Yes
Group error SF (red)	Yes
Galvanic isolation	
Galvanic isolation interface	
between 422/485 and internal power supply	Yes
between RS 232 and internal power supply	Yes
Ambient conditions	
Operating temperature	
min.	-25 °C ; = Tmin
max.	70 °C ; = Tmax
Storage/transport temperature	
min.	-40 °C
max.	70 °C

Extended ambient conditions	
relative to ambient temperature-atmospheric pressure-installation altitude	Tmin ... Tmax at 1080 hPa ... 795 hPa (-1000 m ... +2000 m) // Tmin ... (Tmax - 10K) at 795 hPa ... 658 hPa (+2000 m ... +3500 m) // Tmin ... (Tmax - 20K) at 658 hPa ... 540 hPa (+3500 m ... +5000 m)
Relative humidity	
with condensation, maximum	100 % ; Relative humidity, incl. condensation / frost permitted (no commissioning under condensation conditions)
Resistance	
to biologically active substances/conformity with EN 60721-3-3	Yes ; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna). The supplied connector covers must remain on the unused interfaces during operation!
to chemically active substances/conformity with EN 60721-3-3	Yes ; Class 3C4 incl. salt spray according to EN 60068-2-52 (degree of severity 3). The supplied connector covers must remain on the unused interfaces during operation!
to mechanically active substances/conformity with EN 60721-3-3	Yes ; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused interfaces during operation!
Dimensions	
Width	15 mm
Height	81 mm
Depth	52 mm
Weights	
Weight, approx.	50 g
Status	Aug 30, 2014