

AMIKON TECHNICAL DOCUMENTATION

Product Data Sheet

Siemens 6ES7138-4DF00-0AB0

ET 200S Serial Interface



CHANNELS	DRIVERS	MAXIMUM RATE	SUPPLY
1 serial	ASCII / 3964(R)	19.2 kbit/s	24 V DC

Siemens 6ES7138-4DF00-0AB0 is a single-channel ET 200S serial interface for exchanging asynchronous messages with a configured communication partner. It supports RS232C, RS422 or RS485 hardware, with ASCII and 3964(R) capabilities determined by the selected interface.

01

VERIFIED TECHNICAL INFORMATION

Serial channel	1 configurable interface: RS232C, RS422 or RS485
Protocol support	ASCII on all three interfaces; 3964(R) on RS232C and RS422 only
Baud-rate settings	110, 300, 600, 1200, 2400, 4800, 9600 or 19,200 bit/s
Duplex operation	ASCII supports full duplex on RS232C/RS422; RS485 is half duplex; 3964(R) is half duplex
Process-data configuration	4-byte or 8-byte ASCII/3964R variants
Message length	Up to 200 bytes; S_SEND LEN range 1 to 200 bytes
Character format	7 or 8 data bits, 1 or 2 stop bits; none, odd, even or any parity

Exact-model Siemens sources are identified in the accompanying manufacturer reference. This independently prepared summary does not replace safety engineering or commissioning procedures.

02 TECHNICAL INFORMATION CONTINUED

ASCII receive delimiter	Character-delay expiration, defined end characters or fixed message length
Flow control	RTS/CTS on RS232C; XON/XOFF on RS232C or RS422; unavailable on RS485
Shielded cable limits	RS232C: 15 m; RS422/RS485: 1200 m at 19,200 bit/s with the specified cable and termination
Rated electronics supply	24 V DC, with reverse-polarity protection
Supply current	Backplane: maximum 10 mA; L+: maximum 120 mA, typical 50 mA
Power dissipation	Typical 1.2 W
Interface isolation	RS232C and RS422/RS485 signals isolated from the internal ET 200S power supply
Diagnostics	Green TX/RX and red SF LEDs; function-block STATUS and PROFIBUS slave diagnostics

03 SOURCE AND CONFIGURATION CHECKS

This DF00 variant uses discrete baud settings up to 19.2 kbit/s and a four-byte or eight-byte process-data configuration. Maintenance work should preserve the partner's wiring, message framing and controller blocks while checking the installed module version against the station's interface-module restrictions.

Selected Siemens product data and interface-module compatibility pages, not an installation manual. The 2001 manual limits 3964(R) to RS232C/RS422; the grouped RS422/RS485 data-sheet heading does not enable it on RS485. The old manual contains incomplete warning text, so no installation PDF is supplied. IM restrictions apply only to the identified interface and DF00 versions.

Confirm the supplied hardware, firmware and approved project documentation. Product net mass is not shipment gross weight. Installation and return to service require qualified personnel.

[Siemens official exact-model product reference](#)