PSI-DATA/FAX-MODEM/RS232

Order No.: 2708203

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Industrielles Analog Modem zur Montage auf EN-Tragschiene. Für Wähl- und Standleitungsbetrieb. Serielle RS-232-Schnittstelle, galvanische 3-Wege-Trennung, Alarm- Ein / Ausgang, Versorgungsspannung 24 V AC/DC.

RS-232

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Commercial data

GTIN (EAN)	4 017918 932602
sales group	H660
Pack	1 pcs.
Customs tariff	85176200
Catalog page information	Page 557 (IF-2011)

Technical data

Serial interface

Interface 1	V.24 (RS-232) interface in acc. with ITU-T V.28, EIA/TIA-232, DIN 66259-1
File format/coding	Serial asynchronous UART/NRZ, 7/8 data, 1/2 stop, 1 parity, 10/11-bit character length
Transmission length	15 m
Connection method	D-SUB-9 male connector
Data flow control/protocols	Software handshake, Xon/Xoff, direct mode or hardware handshake RTS/CTS

Serial transmission speed	Automatic data rate detection (default) or fixed setting to 300, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200 bps, can be set via software
Interface 2	PSTN-Port (a/b-Line)
Connection method	RJ12, 6-pos., or pluggable COMBICON screw terminal block
Dialing procedure	Multiple frequency/pulse dialing, configuration via software

Power supply

Nominal supply voltage	24 V DC ±5% (as an alternative or redundant, via backplane bus contact and system current supply)
Supply voltage range	10 V DC ... 60 V DC (via pluggable COMBICON screw terminal block)
	16 V AC ... 40 V AC (via pluggable COMBICON screw terminal block)
Typical current consumption	< 100 mA (24 V DC)
	< 40 mA

General data

Width	35 mm
Height	99 mm
Depth	114.5 mm
Ambient temperature (operation)	0 °C ... 55 °C
Electrical isolation	(VCC // PSTN // V.24 (RS-232))
Test voltage data interfaces	1500 V
Test voltage data interface/power supply	1.5 kV
Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Noise emission	EN 55022
Noise immunity	EN 61000-6-2:2005
Degree of protection	IP20
Housing material	PA V0, color green
Color	green

Certificates / Approvals
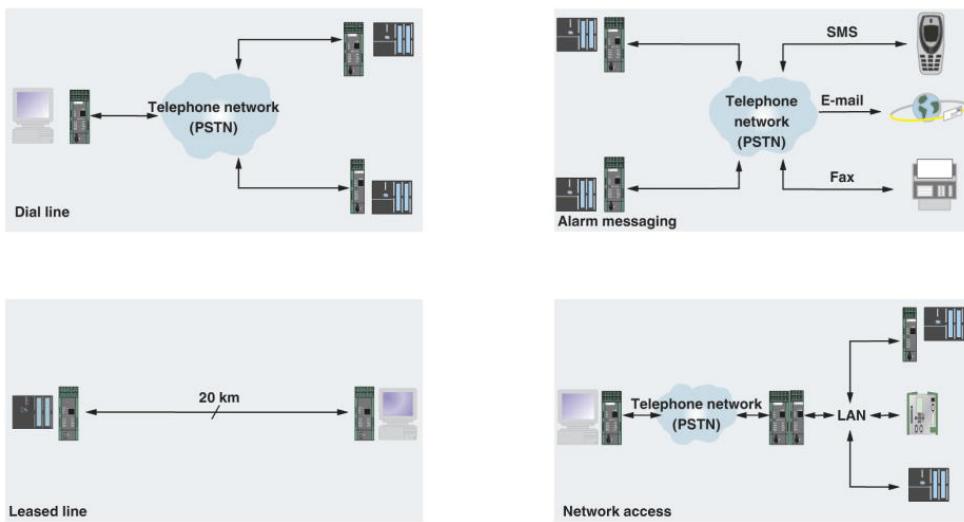
Certification	CUL, UL
Certification Ex:	CUL-EX, UL-EX

Accessories

Item	Designation	Description
Cable/conductor		
2881078	CM-KBL-RS232/USB	Connecting cable D-9-SUB to USB, with adapter D-9-SUB to D-25-SUB.
2311425	PSI-CA-MODEM-SPLITTER	Short RS-232 flat-ribbon connecting cable between the modem and the PSI-MODEM-SPLITTER.
2708520	PSM-KA9SUB9/BB/0,5METER	RS-232 cable, 9-pos. D-SUB female connector on 9-pos. D-SUB female connector, 9-wire, 1:1
2799474	PSM-KA9SUB9/BB/2METER	RS-232 cable, 9-pos. D-SUB female connector on 9-pos. D-SUB female connector, 9-wire, 1:1
2319200	PSM-KAD-IL RS232/9SUB/B/0,8M	Adapter cable to connect the IB IL RS232 and IB IL RS232-PRO Inline communication terminals to the interface converter, e.g. modem, Com server, Bluetooth or fiber optics.
2319200	PSM-KAD-IL RS232/9SUB/B/0,8M	Adapter cable to connect the IB IL RS232 and IB IL RS232-PRO Inline communication terminals to the interface converter, e.g. modem, Com server, Bluetooth or fiber optics.
General		
2709561	ME 17,5 TBUS 1,5/ 5-ST-3,81 GN	DIN rail connector for DIN rail power supply unit, gold-plated contacts, for DIN rail mounting, 5-pos.
2866983	MINI-SYS-PS-100-240AC/24DC/1.5	DIN rail power supply unit, primary-switched mode, slim design, output: 24 V DC / 1.5 A
2708766	PSI-MODEM-SPLITTER	Switching module for accessing two control systems via one modem. The serial connection is switched over via the switching output of the modem or via the switch on the front side of the splitter.
2708753	PSM-AD-D9-NULLMODEM	V.24 (RS-232) zero modem connector
Plug/Adapter		
2313148	PSI-MPI/RS232-PC	MPI adapter for coupling to the programming interface of a SIMATIC® S7-300 / 400 control

Diagrams/Drawings

Application drawing

FAQs

- **01. After dialing up to a remote station via hyperterminal, how can I change to a remote control software without losing the connection ?**

  01. Set the local as well as the remote modem to "Ignore DTR Signal" via the configuration software. Alternatively, a terminal software can be used. In the later case send the commands AT&D0 (Ignore DTR-signal) and AT&W (Save settings) to the modems.

- **02. What´s the meaning of the error message "ERROR: Can´t open COM-port !" when reading out the modem configuration with the configuration software ?**

  02. Appearently the COM-Port is used by another software (e.g. Hyperterminal, Sync-Software for PDA, Configuration Software for Controls etc.). Please shut down this software and read the modem configuration out again .

- **03. When downloading the configuration from/uploading the configuration to the modem via the configuration software the error-message "ERROR-Wrong module !" appears.**

  03. Most propably the te speed setting of the COM-port does not match the speed settig of the modem. Open the modem, set DIP switch 4 to ON and execute a cold start of the modem (disconnect and reconnect supply power). After that, oeb hyperterminal with the settings 19200, 8,O,1 and reset the modem to factory setting with the command AT*F. After that, the modem can be adressed via the configuration software again.

- **04. The modem cannot be addressed by the configuration software (version V1.57 or lower). The error messages "ARROR: Timeout !" and "ERROR: Could not Read/Write Data !"**

  04. This indicates that the modem responses have been deactivated by setting the AT command AT Q1. This may e.g. be necessary when the modem is connected to a PLC. Without modem responses, the configuration software does not work. In this case any settings have to be done with AT commands via a terminal programm (e.g. Hyperterminal).

- **05. What is the reason for the error message "ERROR: No modem found !" when addressing the modem via the configuartion software ?**

  05. The RS-232 connection between PC and modem has not been made correctly. Use a 1:1 cable and ensure that the connector is correctly fitted.

- **06. How can alternative SMS provider s be set (Conf. software Version 1.0.157 or below)?**

  06. In the "Additional setting AT" box, enter " &Z20=<Number of SMS provider> ". This saves the number of your SMS provider in register Z20.

- **07. Why is it not possible to establish a 56k connection for remote maintenance applications ?**

  07. The analog telephone connection is designed for language and thus for a frequency of 300 - 3400 Hz, whereby the data transmission speed is limited to max. 33600 bps. V.34 modems are ideal for this connection.

  56k devices do not use the telephone line like an analog system. This modem sends digital signals instead of analog tone signals. These are transmitted from the digital transmission paths and switching centers up to the analog subscriber line. A transmission speed of 56000 bps is theoretically possible with this method. In practice, only up to 46000 bps are possible! The following conditions must be fulfilled for a 56K connection:- The modem must be connected to a digital switching center. - Only analog/digital conversion is allowed between modem and server.- A digital opposite terminal (Internet server), that supports the 56k standard (V.90) is necessary. 56k transmission (V.90) only takes place from the Internet server to the modem. In the opposite direction, that is from the modem to the Internet server, transmission follows the V.34 standard with 33600 bps. If faster connections are required outside of Internet use, e.g. for remote maintenance, max. 33600 bps can be reached. --> V.34

  Conclusion: The max. transmission speed between two 56k modems is 33600 bps!

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