

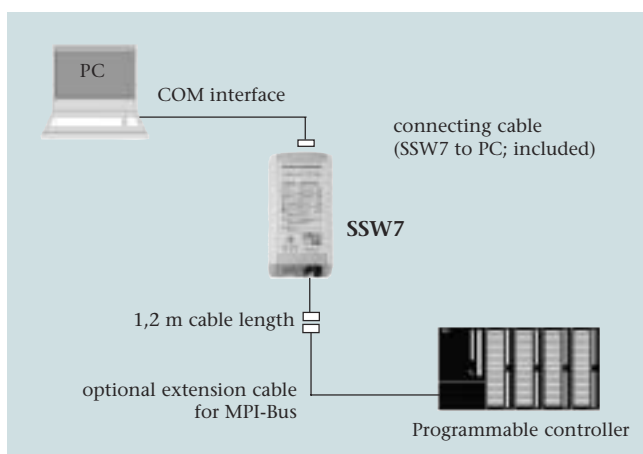
SSW7, SSW7-USB



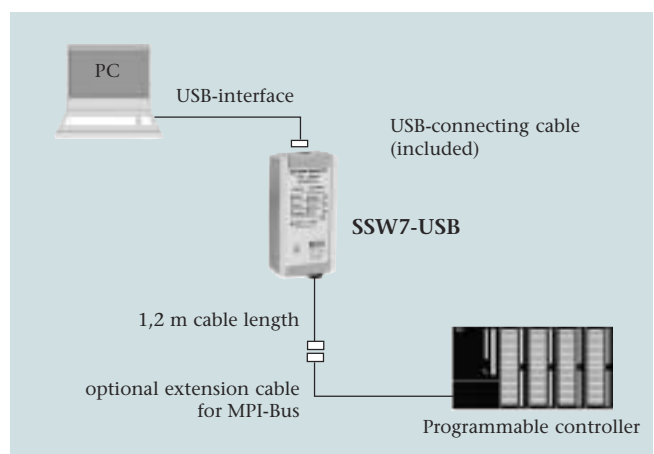
SSW7



SSW7-USB



Application for SSW7



Application for SSW7-USB

SSW7

The SSW7 permits connection of a PC or laptop with programming software to programmable controllers via any standard COM port.

The RS232 interface of the SSW7 has automatic baudrate detection for adaptation to the set baudrate (between 9.6 to 115 Kbaud). The MPI interface operates with 187.5 Kbit/s or 19.2 Kbit/s.

The SSW7 receives its voltage supply from the CPU via the MPI bus. With an optional 24 V connection, it can be used anywhere else in the system.

Note

DIN rails, mounting rail adapters and extension cables can be obtained from Systeme Helmholz (see page 40).

SSW7-USB

The SSW7-USB permits conversion from a USB interface to the MPI bus for programming software or visualization. The SSW7 has a 1.2 m long MPI connecting cable, which can be directly plugged into the CPU socket of the programmable controller or at any other point in the MPI network.

The housing of the SSW7-USB contains a type „B“ USB socket. The SSW7-USB can be connected to the PC via the USB cable supplied. The SSW7-USB is powered from the PC. The SSW7-USB can therefore be used at any point in the MPI bus.

A driver for Windows 98/ME/2000/XP is supplied.

Ordering Data

	Order-No.
MPI-Adapter SSW7	700-751-1VK11
SSW7-USB	700-755-1VK21

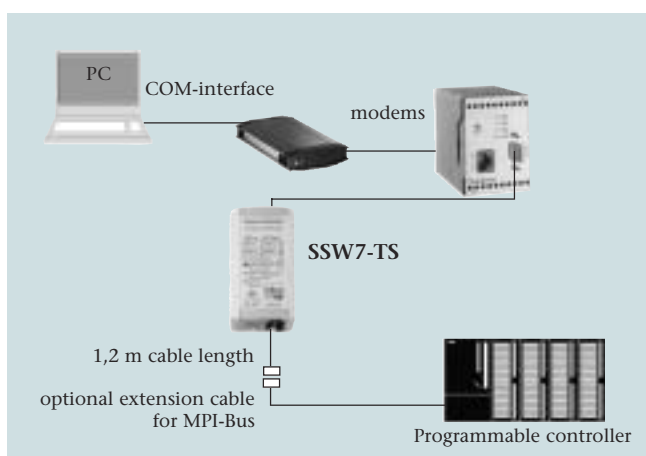
Teleservice with the SSW7-TS



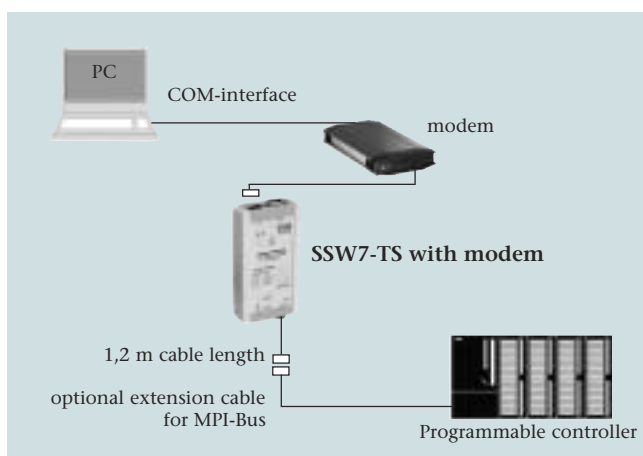
SSW7-TS



SSW7-TS with modem



Application for SSW7-TS



Application for SSW7-TS with modem

SSW7-TS

The SSW7-TS permits teleservice of a system via the telephone line. Commercially available modems can be used for this task.

The SSW7-TS has automatic baudrate detection at the RS232 interface with which it can adapt itself to the PC or the modem (between 9.6 and 115 Kbaud). The MPI interface operates at 187.5 Kbit/s or with 19.2 Kbit/s.

The PC must be installed with a teleservice module for the programming software so that the SSW7-TS can be parameterized if necessary, and the modem connection maintained. Without modems or the teleservice module the SSW7-TS can be operated at the machine as a SSW7.

The voltage supply for the SSW7-TS is taken from the CPU via the MPI bus. With an optional 24 V connection it can be operated anywhere else in the system.

We supply the SSW7-TS with an additional programming interface on the connector including switchable terminating resistor.

Note

DIN rails, mounting rail adapters and extension cables can be obtained from Systeme Helmholtz (see page 40).

SSW7-TS with modem

With the SSW7-TS with modem, teleservice of a system can be performed via the MPI bus.

An analog 56K modem prepared for worldwide use is integrated into the housing of the SSW7-TS. TAE and RJ11 cables are included in the scope of supply. The 9-way SUB-D connector can be connected for parameterization or for in-situ use as a PC adapter. The „Int./Ext.“ switch switches between the internal modem and the RS232 interface.

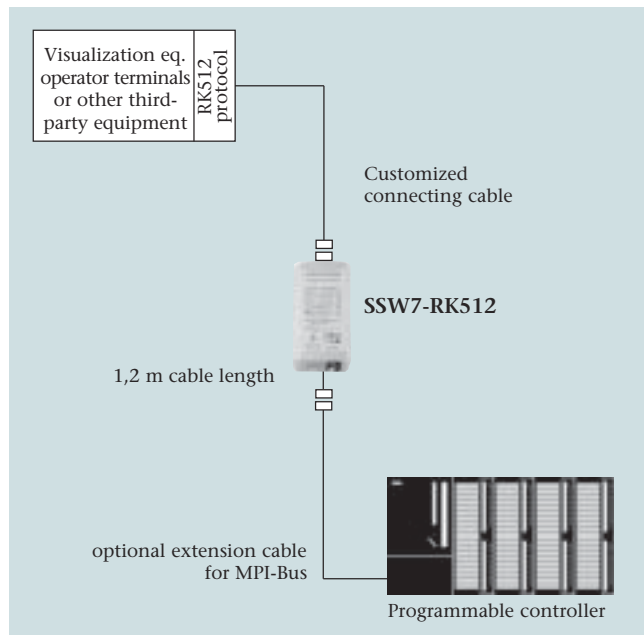
The SSW7-TS with modem receives its power from the CPU via the MPI cable. If 24V are not available at the point of connection or if several MPI adapters are connected to a CPU at the same time, 24 V can be supplied from an external source.

The SSW7-TS with modem can also be provided with a new operating system via a modem link. That enables functional expansion of an adapter already installed in the system.

Ordering Data

	Order-No.
MPI-Adapter	
SSW7-TS	700-751-8VK11
SSW7-TS with modem	700-751-8MD21

SSW7-RK512, SSW7-HMI



SSW7-RK512

SSW7-RK512

With the SSW7-RK512 you can connect any operator terminals, visualization equipment, or other third-party equipment to the S7 if they support the RK512 protocol without adapting the software.

The SSW7-RK512 transmits data blocks, flags, inputs and outputs.

The MPI settings of the SSW7-RK512 can be changed with a parameterization program or with special RK512 frames in order to connect several SSW7-RK512s or several PLCs to an MPI bus.

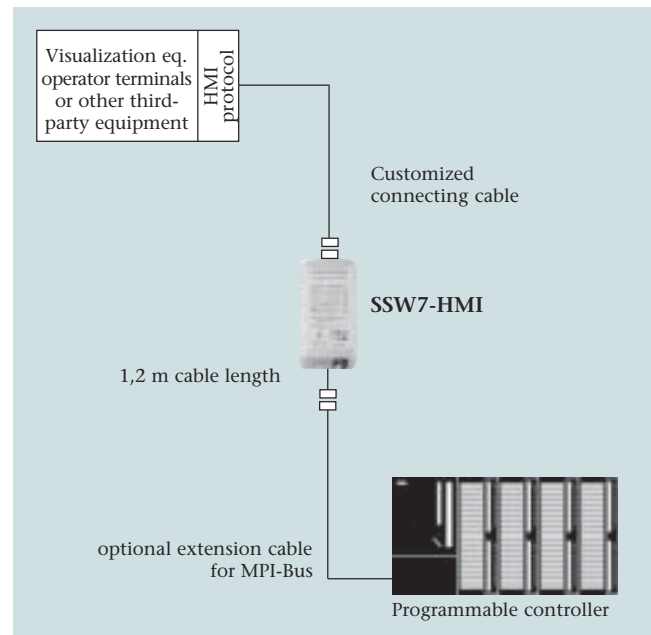
The RS232 interface of the SSW7-RK512 has automatic baudrate detection for adapting itself to the connected device (between 9.6 and 115 Kbaud). The MPI interface operates with 187.5 Kbit/s.

The voltage supply for the SSW7-RK512 is taken from the CPU via the MPI bus. With an optional 24 V connection it can be operated anywhere else in the system.

We supply the SSW7-RK512 with an additional programming interface on the connector including switchable terminating resistor.

Note

DIN rails, mounting rail adapters and extension cables can be obtained from Systeme Helmholtz (see page 40).



SSW7-HMI

SSW7-HMI

The SSW7-HMI is intended for use with operator terminals, visualization equipment, or other third-party equipment that supports the Siemens HMI protocol.

The baudrate of the adapter is set by the protocol (between 9.6 and 115 Kbaud).

The voltage supply for the SSW7-HMI is taken from the CPU via the MPI bus. With an optional 24 V connection it can be operated anywhere else in the system.

We supply the SSW7-HMI with an additional programming interface on the connector including switchable terminating resistor.

Ordering Data

	Order-No.
MPI-Adapter	
SSW7-RK512	700-751-5VK11
SSW7-RK512 with RS422 interface	700-752-5VK11
SSW7-HMI	700-751-9VK11

Technical Data				
	SSW7	SSW7-USB	SSW7-TS	SSW7 with modem
Supply voltage	+24 V ±25 % from PLC or extern	5 V via USB	+24 V ±25 % from PLC or extern	+24 V ±25 % from PLC or extern
Current consumption	approx. 35 mA	approx. 100 mA	approx. 35 mA	approx. 90 mA
MPI interface				
Type	RS485	RS485	RS485	RS485
Transmission rate	19.2 or 187.5 Kbits/s	19.2 or 187.5 Kbits/s	19.2 or 187.5 Kbits/s	19.2 or 187.5 Kbit/s
Cable connector	SUB-D 9-way	SUB-D 9-way	SUB-D 9-way with PG interface and terminating resistor	SUB-D 9-way with PG interface and terminating resistor
Communication interface				
Type	RS232	USB 1.1	RS232	RS232, 2-wire dial-up
Transmission type	serial asynchronous	_____	serial asynchronous	serial asynchronous
Transmission rate	9.6...115 Kbaud	_____	9.6...115 Kbaud	9.6...115 Kbaud
Parity	odd	_____	odd	_____
Data format	8 bit		8 bit	8 bit
Protocols	PC <-> S7	PC <-> S7	PC <-> S7 via modem or local	PC <-> S7 via modem or local
Connection	connector, SUB-D 9-way	USB-A female	connector, SUB-D 9-way	connector, SUB-D 9-way and RJ11
	SSW7-HMI	SSW7-RK512	SSW7-RK512 with RS422	_____
Supply voltage (from AG or current supply)	+24 V ±25 %	+24 V ±25 %	+24 V ±25 %	
Current consumption	approx. 35 mA	approx. 35 mA	approx. 35 mA	
MPI interface				
Type	RS485	RS485	RS485	
Transmission rate	19.2 or 187.5 Kbits/s	187.5 Kbits/s	187.5 Kbits/s	
Cable connector	SUB-D 9-way with PG interface and terminating resistor	SUB-D 9-way with PG interface and terminating resistor	SUB-D 9-way with PG interface and terminating resistor	
Communication interface				
Type	RS232	RS232	RS422	
Transmission type	serial asynchronous	serial asynchronous	serial asynchronous	
Transmission rate	4.8...115 Kbaud	9.6...115 Kbaud	9.6...115 Kbaud	
Parity	odd	even	even	
Data format	8 bit	8 bit	8 bit	
Protocols	HMI	RK512 with 3964/R	RK512 with 3964/R	
Connection	connector, SUB-D 9-way	connector, SUB-D 9-way	connector SUB-D 9-way	

Modems for Teleservice



DIN rail type modem



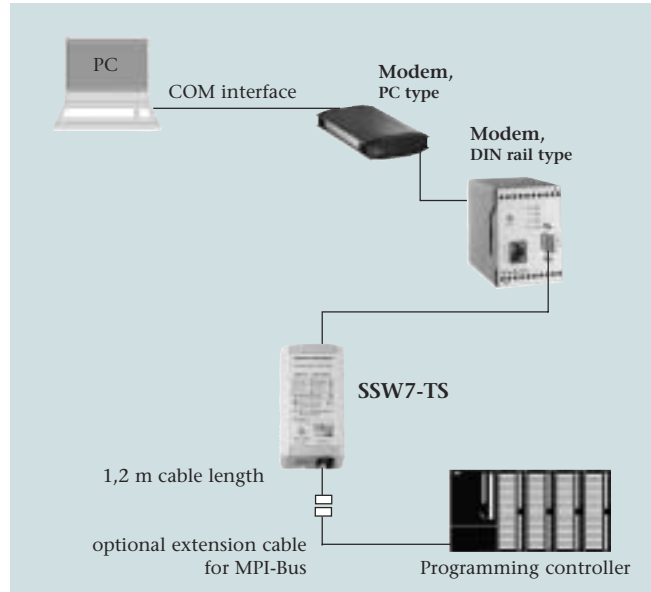
PC type modem

With the SSW7-TS it is possible to service a plant remotely via the phone line. Commercial type modems can be used for that purpose. Systeme Helmholtz GmbH offers modems in DIN rail and PC versions.

The modems are available both for analog and for ISDN phone connections. Suitable phone cables are included.

The DIN rail mounting modem can be operated at a voltage of 10 to 80 V. The PC type modem is supplied with a 230 V connector PSU.

The DIN rail modem is prepared for worldwide use. It contains two alarm inputs and two switching outputs. With the alarm inputs, the modem can send a message via data link, as a fax, or as an SMS.



Application for SSW7-TS

Ordering Data

	Order-No.
SSW7-TS	700-751-8VK11
Modem, PC version, analog	700-751-MDM02
Modem, DIN rail type, analog ¹⁾	700-751-HSM11
Modem, PC type, ISDN	700-751-MDM04
Modem, DIN rail type, ISDN ¹⁾	700-751-HSM02
Starting kit 1 (SSW7-TS +1 modem PC type, analog +1 DIN rail type modem, analog)	700-751-TSP01
Starting kit 2 (SSW7-TS + 1 DIN rail type modem, analog)	700-751-TSP02

- 1) Export restriction for: - IR - KP
 - CU - SY
 - LB - IQ
 - MZ - LY

Technical Data				
Design	PC, analog	DIN rail	PC, ISDN	DIN rail, ISDN
Degree of protection for housing	IP 20	housing IP 40/ clamps IP 20	IP 20	housing IP 40/ clamps IP 20
Dimension (LxWxH mm)	71 x 128 x 22	55 x 110 x 75	71 x 128 x 22	55 x 110 x 75
Ambient temp.	0...+55°C	0...+55°C	0...+55°C	0...+55°C
Air humidity	0-95% non condensing	0-95% non condensing	0-95% non condensing	0-95% non condensing
Supply voltage	DC 8-10 V via supplied plug-in power supply	DC 10-80 V	DC 8-10 V via supplied plug-in power supply	DC 10-80 V
Power consumption	max. 2 W	approx. 2.5 W	max. 1 W	approx. 0.5 W
Interface	RS232 9-way	RS232 9-way	RS232 9-way	RS232 9-way
Interface speed	300-115.200 bit/s	300-115.200 bit/s	300-230.400 bit/s	300-230.400 bit/s
Network interface	analog phone network RJ11 female	analog phone network via screw terminals or RJ45 female	ISDN via RJ45 or screw terminals	ISDN, RJ45
Line requirements	2-wire dial-up	2-wire dial-up	ISDN So	ISDN So
Software update	yes	yes	yes	yes
Watchdog	no	yes	yes	yes
Reset key	no	yes	no	yes
Status display	2 LEDs (Power and OFF HOOK)	4 LEDs (Power, OH, DCD, RX/TX)	8 LEDs	4 LEDs (Power, OH, DCD, RX/TX)
Electrical isolation	to telephone	to telephone	to telephone	to telephone
Alarminput	_____	2	_____	2
Switching output	_____	2 relays	_____	2 relays

MPI-Accessory



DIN rail adapter and mounting rack adapter

For all adapters for the MPI bus, we provide a DIN rail adapter and a mounting rack adapter for the S7-300 rail as an accessory.

Ordering Data	
	Order-No.
MPI-Accessory	
DIN rail adapter, short	700-751-HSH01
DIN rail adapter, long	700-751-HSH10
Mounting rack adapter	700-751-PSH00
Extension cable	
Extension cable MPI bus, 5 m	700-751-6VK11
Extension cable MPI bus, 10 m	700-751-6VK21
Extension cable MPI bus, special lengths	700-751-6SO11

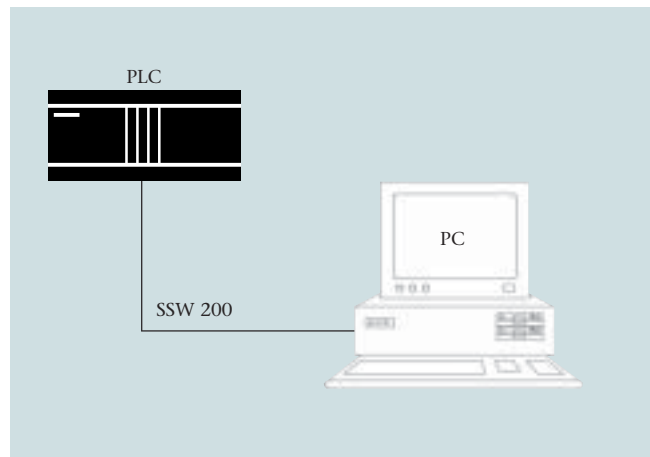
The MPI bus can be extended with the MPI bus extension cable. The cable also carries the power supply for the MPI adapter

SSW 200



SSW 200

With the SSW 200 it is possible to connect a PC with suitable programming software to a S7-200¹⁾ via any standard COM port. You can set the transmission rate to match your PC with a selector switch.



Ordering Data	
	Order-No.
SSW 200 for connecting PC to a CPU, 3m	700-751-2VK11

Technical Data	
PPI interface	
Type	RS485
Transmission rate (depending on switch position)	1200, 2400, 9600, 19200, 38400 Kbit/s
Connectors	SUB-D 9-way
Communication interface	
Type	RS232
Transmission mode	serial asynchron
Transmission rate (depending on switch position)	1200, 2400, 9600, 19200, 38400 Kbaud
Female connector	SUB-D 9-way

1) S7-200® is a registered trademark of Siemens AG