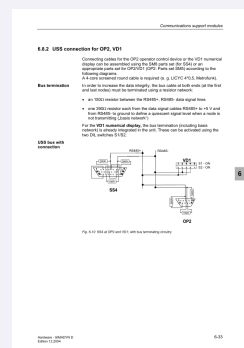


FIELD INSTALLATION QUICK GUIDE

Installation Instructions

6DD1688-0AD0

Serial communication interface submodule



PRODUCT	6DD1688-0AD0
FAMILY	SIMADYN D SS4
FUNCTION	Serial communication interface submodule
SOURCE	Siemens SIMADYN D SS4 technical documentation

01 OFFICIAL MOUNTING AND WIRING

- Select the documented interface adapter for the required serial electrical connection.
- Apply the front-connector pin allocation and RS485 termination shown in the official drawings.
- Follow the grounding and shielding arrangement in the SIMADYN mounting instructions.

AMIKON PRODUCT SUPPORT

+86-18020776786

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RS 232 interface

the programmer side, according to the following drawing.
A 4-core screened round cable is required (e. g. LICYC 4*0,5, Metrofunk).
Operating a PC or PG750/770 via the standard RS 232 (V.24) interface:

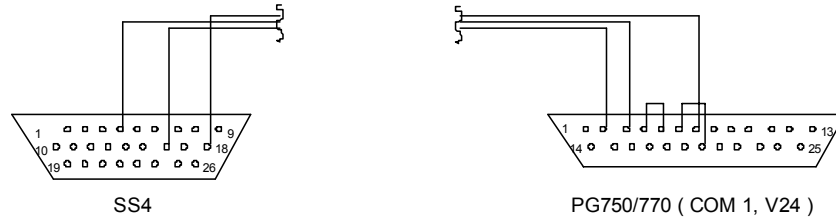


Fig. 6-7 SS4 at a PG750/770 (COM1) via the RS 232 interface
(the two jumpers for the PC are not required!)

20mA interface

Operating the PG750/770 at the **active** SS4 communications module
(active: Line current source and -sink on the SS4 side; thus, higher data
integrity can be achieved with long cables and high baud rates):

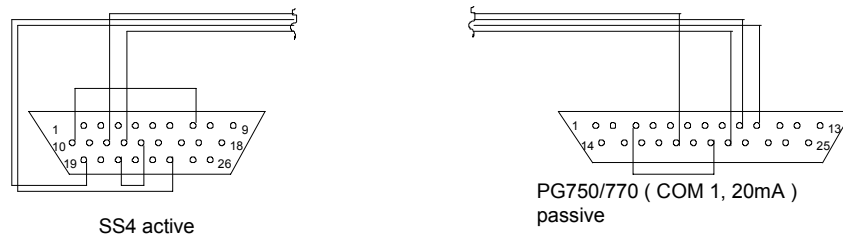


Fig. 6-8 SS4 at PG750/770 (COM1) via the 20mA interface (active)

Operating the PG750/770 at the **passive** SS4 communications module
(passive: Line current source and -sink are not at the SS4 side):

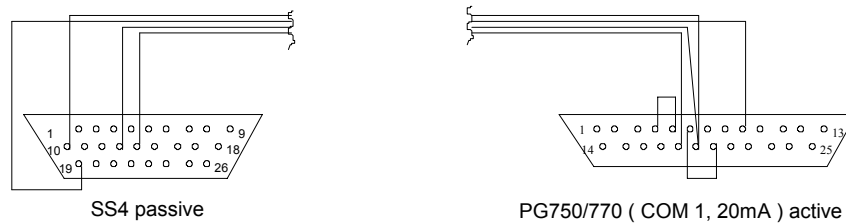


Fig. 6-9 SS4 at PG750/770 (COM1) via the 20mA interface (passive)

NOTE

If the **PG750/770** is operated as passive 20 mA current interface, then
switches S3/2 and S3/3 in the PG must be opened (refer to the
PG750/770 Manual).

6.8.2 USS connection for OP2, VD1

Connecting cables for the OP2 operator control device or the VD1 numerical display can be assembled using the SM8 parts set (for SS4) or an appropriate parts set for OP2/VD1 (OP2: Parts set SM5) according to the following diagrams.

A 4-core screened round cable is required (e. g. LICYC 4*0,5, Metrofunk).

Bus termination

In order to increase the data integrity, the bus cable at both ends (at the first and last nodes) must be terminated using a resistor network:

- an 150Ω resistor between the RS485+, RS485- data signal lines
- one 390Ω resistor each from the data signal cables RS485+ to +5 V and from RS485- to ground to define a quiescent signal level when a node is not transmitting („basis network“)

For the **VD1 numerical display**, the bus termination (including basis network) is already integrated in the unit. These can be activated using the two DIL switches S1/S2.

USS bus with connection

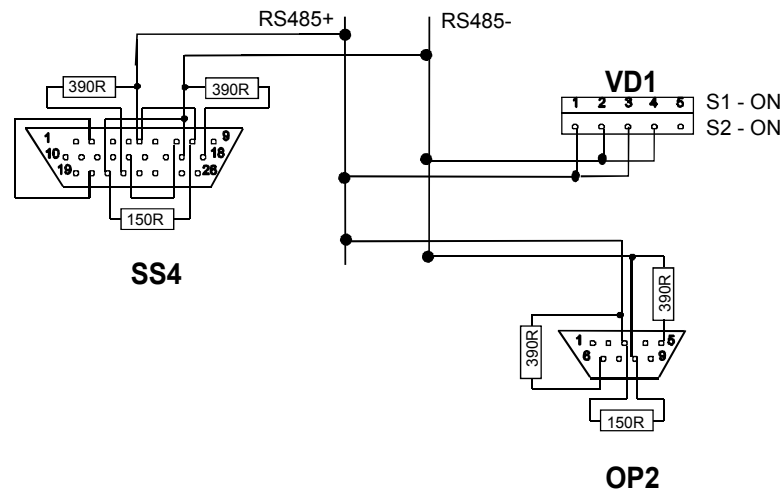


Fig. 6-10 SS4 at OP2 and VD1; with bus terminating circuitry

Diagnostics interface X5

The 26-pin interface connector X5 includes, in addition to the signals of the configurable interface, also the signals of an RS 232 diagnostics interface („hexadecimal monitor“).

The required connecting cable, together with the cable of the configurable interface must be connected at the interface connector to use this diagnostics interface:

Pin	Diagnostics interface X5 (RS-232)
1	TxD
9	GND
26	RxD

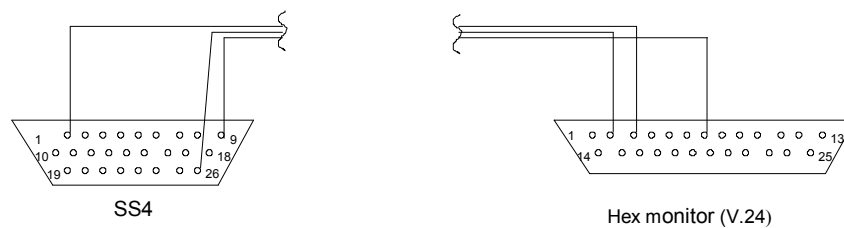


Fig. 6-15 Pin assignment of the diagnostics interface

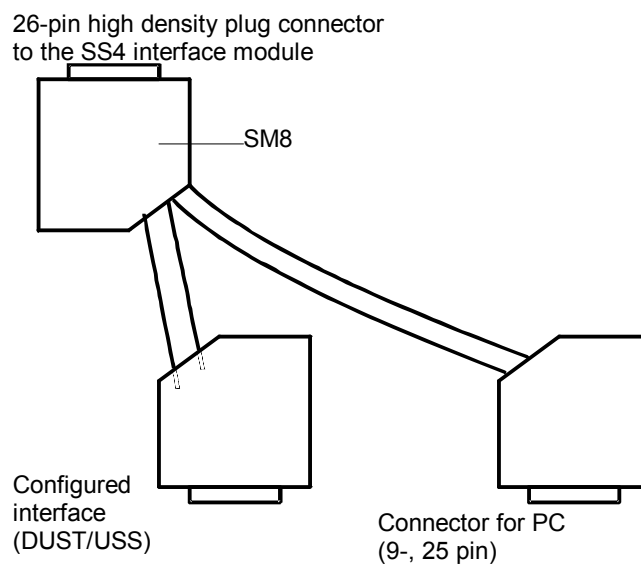


Fig. 6-16 Connecting the configuring- and diagnostics interface at connector X5.