Saia-Burgess Controls AG

Bahnhofstrasse 18, 3280 Murten, Switzerland
T +41 26 580 30 00, F +41 26 580 34 99
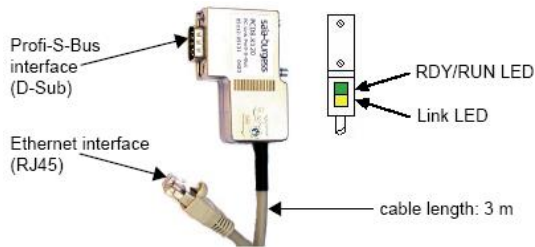www.saia-pcd.com – www.sbc.support.com

2. Technical characteristics

Profi-S-Link is an Ethernet to Profibus Gateway built into a D-Sub connector.
It is connected to the PC via Ethernet, often using a Hub or Switch. A point to point connection is possible using the crossed cable and male/male adaptor provided with each Profi-S-Link.
The Profi-S-Link is supplied from the Profi-S-Bus port of the PCD. The configuration is downloaded via Ethernet and stored in Flash EPROM.

Profi-S-Bus connector

Pin	Signal	Meaning
1	-	Unused
2	DGND	Data and supply voltage reference
3	RxD/Txd-P	Receive / transmit data-P
4	-	Unused
5	DGND	Data and supply voltage reference
6	-	unused
7	VP	24 V power supply
8	Rxd/TxD-N	Receive / transmit data-N
9	-	Unused Housing / shield

RJ45 connector

Pin	Signal	Meaning
1	TX+	Transmit data
2	TX-	Transmit data
3	RX+	Receive data
4	-	Unused
5	-	Unused
6	RX-	Receive data
7	-	Unused
8	-	Unused

LED

RDY / RUN Red	Flashing (1 Hz)	Boot loader active
	Flashing fast (10 Hz)	Booting, Firmware being initialized
RDY / RUN Green	On	Ready, IP address set
	Flashing non-cyclically	Still no IP address or double addresses in the network
	Flashing fast (10 Hz)	Firmware being updated
Link LED	On	There is a connection with the Ethernet
	Off	No connection with the Ethernet

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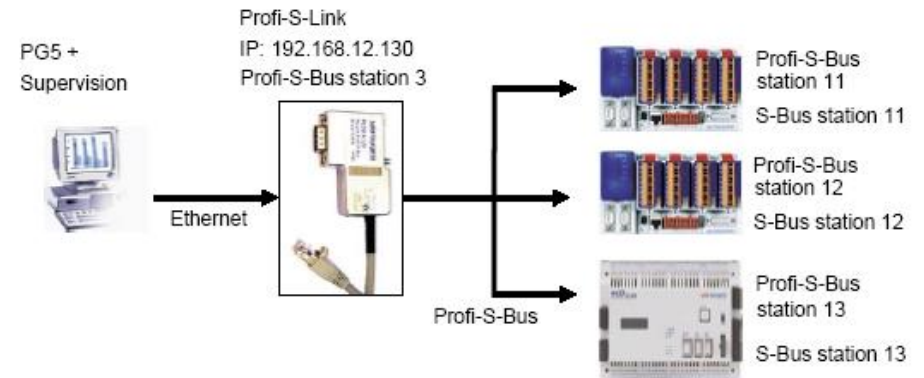# Profi-S-Link PCD8.K120

1. QUICKSTART

1.1 SUMMARY

Profi-S-Link PCD8.K120 is an Ethernet to Profibus Gateway that supports programmation and supervision of the new generation of PCD-CPU's with Profi-S-Bus protocol, like the PCD2.M480 or the PCD3.Mxxxx.

This document give you an overview how to establish communication between the software tool PG5 and the PCD-CPU's that are connected via Profi-S-Bus. For more informations, see the manual Profi-S-Link 26/834.

⚠ **The Minimum PG5 Version, which has to be used is 1.3.100**

1.2 Communication network

Ethernet network

Profi-S-Link is connected to the PC via Ethernet. It is possible to have several Profi-S-Links in the same Ethernet network.

Profi-S-Bus network

Connect Profi-S-Link and the PCD-CPU's according the specifications of Profi-S-Bus

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1.3 PG5 Hardware settings   Hardware

Hardware settings allow to define the parameters of the Profi-S-Bus port for each connected station.

⚠ **Without the following configuration the Profi-S-Link will not be powered by the 24 V supply from the Profi-S-Bus port, so the Profi-S-Link will not work.**

Sheet	Parameter name	Comment	Sample
PCD	PCD Type	new generation of PCD-CPU	PCD2.M480
S-Bus	S-Bus Station Number	0, …, 254	13
Profi-S-Bus	Address	0, 126	13
	Baud Rate	Each station must have the same speed	1.5 MBd
	Bus Profile	Each station must have the same Bus Parameters profile	S-Net
	PGU Port	Must be enable with PG5	enable

 After defining the hardware settings, download them into the PCD memory with the button Download.
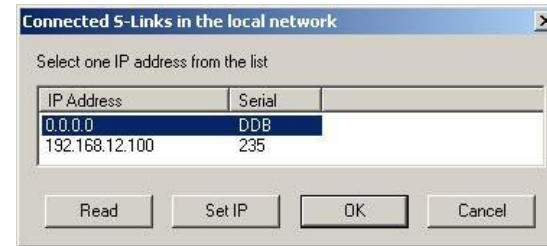
1.4 Online settings   Online

The online settings allow to define the communication parameters for the software tool PG5 and the Profi-S-Link.

1.4.1 Configuration of the Profi-S-Link
In the online settings select the button Setup, then Profi-S-Link settings and define the parameters of Profi-S-Link.

Parameter name	Comment	Sample
IP Address	IP number of your S-Link	192.168.12.130
Baud Rate	Each station must have the same speed	1.5 MBd
Profi-S-Bus Station	The Profi-S-Link is an active station in the Profi-S- Bus network!	1
Highest Station Address	Use always 126	126
Profile	Each station must have the same Bus Parameters profile	S-Net

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 Download the selected settings into the Flash memory of Profi-S-Link with the button Download.

A dialogue window shows the list of the Profi-S-Link hardware available only on the **local** Ethernet subnet. For configuration select the desired Profi-S-Link with the mouse and press OK.

If the Profi-S-Link is brand new (Address 0.0.0.0 per default) or is not located in the local subnet, you can temporarily define an IP address to communicate with the Profi-S-Link for the download and the upload of the settings.

1.4.2 Configuration of the online settings of the CPU's

For each CPU in the PG5 project verify the parameters of the channel:
Profi-S-Link IP Address, S-Bus Station, Profi-S-Bus Station.