

# PLC-ANALYZER pro 6

PLC-Logic analysis in no time

## Driver Addendum



QB

MW



PLC-driver

**Schneider**

AEG TSX A250 / A120 / Micro  
programming interface (KS)



**AUTEM**  
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# PLC-ANALYZER pro 6 - Driver Addendum

## Schneider AEG TSX A250 / A120 / Micro - programming interface (KS)


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## Signal source

### Schneider AEG TSX A250 / A120 / Micro

This driver addendum describes the particularities of the following PLC drivers and gives you hints on using them.

- Schneider AEG TSX A250 / A120 / Micro

It is important that you read through the driver addendum before using a PLC driver. Please pay attention to the WARNINGS that advise you on possible dangers when using PLC-ANALYZER pro.



#### **WARNING**

Errors that may occur in the automated facility, endangering humans or causing large-scale material damage, must be prevented by additional precautions. These precautions (e.g. independent limit monitors, mechanical interlocks) must guarantee safe operation, even in case of dangerous errors.

## Installation

The PLC driver can be added to the project as a new signal source. If the driver you want is not yet in the list of available signal sources, you must first activate the license for the PLC-driver with the AUTEM LicenseManager on your computer.

### Installing additional hardware

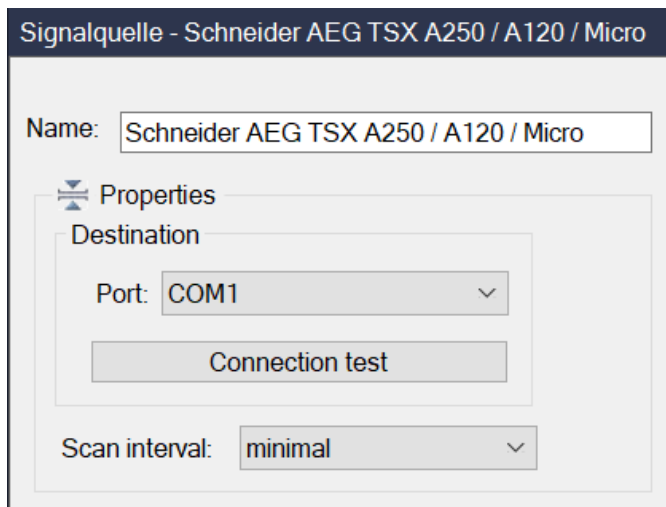
If you have already connected your programming unit (or your PC) for programming under Dolok-AKF with the automation device, then you normally must do nothing else.

### Installing additional software

No software is required in addition to the PLC-ANALYZER pro basic module and the PLC driver.

## Configuration

Open driver settings to set important parameters for data recording. If you have added the driver to the project several times, you can set the properties individually for each individual driver.



**Fig. 1-1 Settings**

First enter a meaningful name. Then select under *Port* the PC COM port, where the connection cable is connected.

With *Connection test* you check whether a connection to the PLC can be established with the set parameters.

*Scan interval* lays down the interval between reading data from the PLC. For time insensitive applications e.g. temperatures a generous probe interval can be chosen. The signal files resulting is smaller.

After setting the communication properties, add the PLC signals to be recorded.

## Data acquisition

### Supported PLC models and CPUs

The following models of the AEG-A-family are supported:

- Micro
- A120 - ALU 204/205
- A250

Other automation devices and CPUs from the Schneider AEG-A family are generally compatible with PLC-ANALYZER pro, but have not been explicitly tested.

### Recordable PLC addresses

The following table shows the addresses possible and the appropriate syntax:

Syntax	Address type	Example
Ax.z	Outputbyte x, Bit z	A32.4
ABx.z	Slot x, Outputbyte z	AB3.1
AWx.z	Slot x, Output word z	AW2.1
Ex.z	Inputbyte x, Bit z	E4.1
EBx.z	Slot x, Inputbyte z	EB3.1
EWx.	Slot x, Input word z	EW2.1
Mx.z	Flag byte x, Bit z	M4.1
MBx.z	Slot x, Flag byte z	MB3.1
MWx.z	Slot x, Flag word z	MW2.1
SMx	System flag Bit x	SM12
SMBx	System flag Byte x	SMB11
SMWx	System flag Word x	SMW2
Tx	Timer x	T1
TIWx	Actual value Timer x	TIW2
TSWx	Set value Timer x	TSW3
Zx	Counter x	Z4
ZIWx	Actual value Counter x	ZIW5
ZSWx	Set value Counter x	ZSW6

**Tabelle 1-1: Recordable addresses**

## Number of recordable addresses

Up to 50 addresses can be recorded simultaneously. Address means a bit- or Byte value. A word value comes up to two byte values.



### NOTE

The max. number of Modicon components A120 ( $0 \leq TNN \leq 18$ ) has the same basis as the KS-protocol A250, although A250 knows more users. In other words, the limit for direct access on I/O data A250 are the first 18 components.

## Time behaviour and particularities

The intervals between scan transfers from the AEG-PLC to the computer are dependent on the number of recorded signals and the used PLC.

The following table shows typical scan times for AEG A120:

Scan data	Scan interval
1 byte	46 ms
2 byte	47 ms
4 byte	53 ms
12 byte	67 ms
4 byte + 4 words	67 ms
12 byte + 10 words	97 ms
12 byte + 10 words + 3 timer	125 ms

**Table 1-2: Scan times**