

lamaPLC Simatic

Siemens SIMATIC is one of the world's most widely used, highly reliable modular automation systems. It is not affordable—it can be said to be damn expensive—but you have to pay for the quality.



The system has been on the market since the 80s, initially with a PLC family called the S5.

The S7 family was introduced in the early 2000s, with the 200, 300, and 400 PLC series and the programming interface now called Simatic Classic. About 10 years ago, this was replaced by the Simatic TIA Portal, which integrated HMI (WinCC) in addition to programming solutions. At the same time, the 1200 and 1500 PLCs entered the market and can only be programmed with the TIA Portal.

Simatic can be programmed in several programming languages, the so-called KOP / FUP (contact-plan, function-plan) for beginners. Programmers usually choose between AWL and SCL. AWL (Anweisungsliste / instruction list) is an assembly-like language, while SCL (Structured Control Language) is most similar to PASCAL.

I mainly deal with SCL on this site, as I have been working with it for over 10 years.

Online professional books

Simatic S7- TIA Portal programming: [Automation!](#)

lamaPLC Simatic know-how contents

Simatic S7-1500 / S7-1200: [Simatic S7-1500 / S7-1200](#)

Simatic TIA portal (and classic) type-definitions: [TIA Data-types](#)

Simatic TIA SCL commands: [SCL commands](#)

Simatic TIA Basic know-hows: [TIA Portal know-how](#)

Simatic (TIA and classic) Modbus error- and statuscodes: [Simatic Modbus S7 error- and statuscodes](#)




Simatic S7 PLC types: [S7 PLC types](#)

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Simatic TIA Diagnose generator: [TIA Diagnose generator](#)

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Simatic S7 Solutions

	<p>S7-1500 and Metrawatt EM2389 Modbus TCP communication</p>	<p>The Metrawatt MID approved meters can be used to acquire and bill active energy in industrial, household, commercial and building management applications. The solution includes the downloadable S7 SCL source code and its description.</p> <p>Last update: 18.05.2023</p>
	<p>S7-1500 and Sicam Q200 Modbus TCP communication</p>	<p>The device measures voltages up to 480 V in 1-phase systems and 3-wire and 4-wire systems (with neutral phase). The input circuits for voltage measurement can be used in IT, TT, and TN networks. The solution includes the downloadable S7 SCL source code and its description.</p> <p>Last update: 18.05.2023</p>
	<p>UICPAL Temp.humi.sensor</p>	<p>The relative humidity of air is the ratio of the absolute humidity in the air to the absolute humidity at saturation at the same temperature, which is a percentage. (that is, the percentage of the amount of water vapor in the air in a certain time and the amount of saturated water vapor at the temperature) is expressed by RH.</p> <p>Last update: 17.06.2023</p>

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