

SIEMENS



Brochure

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Everything about the LOGO! world

# Simple ingenious for small automation tasks

LOGO! Logic Module

[SIEMENS.NL/LOGO!](https://www.siemens.nl/logo/)

# LOGO! Small but wow! – Solution examples

The LOGO! by Siemens is not just a logic module; it's a versatile tool that can revolutionize the way you approach automation. With its wide range of features, flexibility, and reliability, the LOGO! is designed to meet the demands of various applications and solutions, from simple control tasks to complex automation projects.



## Industry

- **Conveyor Systems:** Control and synchronize multiple conveyor belts, ensuring smooth and efficient material handling processes.
- **Pump and Motor Control:** Automate the operation of pumps and motors in manufacturing, water treatment, and agricultural applications, reducing manual intervention and improving reliability.
- **Energy Management:** Monitor and control energy consumption in industrial facilities, optimizing usage and reducing costs.



## Agriculture

- **Irrigation Systems:** Automate irrigation schedules based on soil moisture sensors, weather data, and crop requirements to ensure efficient water usage.
- **Greenhouse Control:** Maintain optimal growing conditions by automating ventilation, shading, heating, and lighting systems.
- **Livestock Management:** Monitor and control feeding, lighting, and climate for livestock housing to improve animal welfare and productivity.



## Home automation

- **Lighting Control:** Automate lighting based on time schedules or occupancy sensors. Create energy-efficient systems by integrating daylight sensors.
- **Climate Control:** Manage HVAC systems with temperature sensors and programmable settings for optimal comfort and energy savings.
- **Access Control:** Implementing access control systems with features such as smart locks and gate control. Access can be managed remotely, allowing homeowners to grant access to visitors or service personnel via their smartphone.




## Smart buildings

- **Access Control:** Secure buildings with automated door locks, card readers, and entry logging systems.
- **Elevator Control:** Enhance the operation of elevators with precise control over speed, floor selection, and safety features.
- **Lighting and HVAC Integration:** Combine lighting and HVAC (Heating, Ventilation, and Air Conditioning) control for comprehensive building automation solutions.

# LOGO! – Small but wow!

The perfect start into automation and digitalization – LOGO! stands for simple engineering, reliable operations, and compact size. This makes the compact controller the perfect solution for numerous simple automation tasks.



The image shows a Siemens LOGO! compact controller unit. It features a central color display screen, a keypad with directional arrows and function keys (ESC, OK), and various ports including X10, X50, X11, and X1 P1. The unit is labeled with 'SIEMENS LOGO!' and 'EED1 052-1M090-0BA8'. It has a DC 12/24V INPUT 8xDC and an OUTPUT 4xRELAY/10A. The top row of terminals is labeled I 1 through I 8, and the bottom row is labeled O 1 through O 4.

**Modular extensions**

The LOGO! modules enables you to expand the functionality of your compact controller and adapt it flexibly.

**Simple programming**

Predefined function blocks ensure that you can always program your LOGO! quickly efficiently – even without programming skills.

**Versatile communication**

Support for numerous communication options and even cloud connectivity.

**Remote access**

Predfined cloud connectivity solutions or independent open MQTT communication

**Notification system**

Send customized emails at trigger events for detailed alarming

## The latest generation of logic modules

### Hardware and Connectivity

- Eight basic units for all voltages, with or without a large display
- All devices are equipped with an Ethernet port and connections are, of course, compatible with previous versions Seven digital modules and three analog modules
- Maximum configuration: 24 digital inputs, 20 digital outputs, 8 analog inputs, and 8 analog outputs

### Software and Features

- Enhanced cloud integration allowing remote monitoring and control via the cloud (AWS, Alibaba and Microsoft Azure)
- Enhanced web server functionality with customizable web pages
- Integrated data logging capabilities
- Time synchronization between LOGO! basic units
- Expanded memory for larger and more complex programs (VX memory up to 2048Bytes, VR memory 512Bytes, increased layout memory 30kB → 512kB)
- Enhanced security features including improved password protection and encryption
- Support for new communication protocols, including open MQTT for IoT (Internet of Things) applications
- Email trigger system, customized email, up to 8 groups
- Support of batch download
- Download data log files while LOGO! is in RUN mode
- Faster program transfer for LSC and LWE
- Increased processing speed and performance optimization

### Environmental Specifications

- The temperature range has been extended to between –20 °C and +55 °C
- LOGO! 8 as SIPLUS extreme for use in especially harsh conditions, e.g. extreme temperature ranges, 100% relative humidity including condensation and frost. Conformal coating for protection against chemically, biologically, and mechanically active substances as well as salt spray.

# LOGO! 8.4 Basic Modules the compact controller

LOGO! is the perfect choice as a fast, uncomplicated and space-saving solution for basic control tasks. LOGO! has long been a constant as an intelligent logic module for small automation projects.



## LOGO! 8.4 Basic Units with display

LOGO! 8.4 Basic with 6-line LCD display and cursor keys, Ethernet interface

	LOGO! 24 CE	LOGO! 12/24 RCE	LOGO! 24 RCE	LOGO! 230 RCE
Power supply	24 V DC	12...24 V DC	24 V AC/DC	115...230 V AC/DC
Digital inputs	8, of which 4 can be used as AI (0...10 V)	8, of which 4 can be used as AI (0...10 V)	8	8
Digital outputs	4	4	4	4
Analog inputs	Up to 4 (0...10 V)	Up to 4 (0...10 V)	-	-
Outputs	0.3 A transistor	10 A relay	10 A relay	10 A relay
Article No.	<b>6ED1052-1CC08-0BA2</b>	<b>6ED1052-1MD08-0BA2</b>	<b>6ED1052-1HB08-0BA2</b>	<b>6ED1052-1FB08-0BA2</b>

## LOGO! 8.4 Basic Units without display

LOGO! 8.4 Basic pure without LCD display and without cursor keys, Ethernet interface

	LOGO! 24 CE	LOGO! 12/24 RCE	LOGO! 24 RCE	LOGO! 230 RCE
Power supply	24 V DC	12...24 V DC	24 V AC/DC	115...230 V AC/DC
Digital inputs	8, of which 4 can be used as AI (0...10 V)	8, of which 4 can be used as AI (0...10 V)	8	8
Digital outputs	4	4	4	4
Analog inputs	Up to 4 (0...10 V)	Up to 4 (0...10 V)	-	-
Outputs	0.3 A transistor	10 A relay	10 A relay	10 A relay
Article No.	<b>6ED1052-2CC08-0BA2</b>	<b>6ED1052-2MD08-0BA2</b>	<b>6ED1052-2HB08-0BA2</b>	<b>6ED1052-2FB08-0BA2</b>

# LOGO! Expansion Modules for maximum flexibility

A wide range of expansion modules allows the user to set up a flexible LOGO! configuration, supporting up to 24 digital inputs, 20 digital outputs, 8 analog inputs, and 8 analog outputs.



## Digital I/O expansion modules

LOGO! digital I/O expansion modules enhance LOGO! logic modules by adding up to 24 digital inputs and 20 digital outputs, with options for relay or transistor outputs, various voltage levels, high output currents up to 5A, short-circuit protection, and compatibility with LOGO! 8 devices.

	Power supply	Digital inputs	Digital outputs	Analog inputs	Outputs	Article No.
<b>LOGO! DM8 24, Transistor DA</b>	24 V DC	4	4	-	0.3 A	<b>6ED1055-1CB00-0BA2</b>
<b>LOGO! DM8 12/24 R</b>	12...24 V DC	4	4	-	5 A relay	<b>6ED1055-1MB00-0BA2</b>
<b>LOGO! DM8 24 R</b>	24 V AC/DC	4	4	-	5 A relay	<b>6ED1055-1HB00-0BA2</b>
<b>LOGO! DM8 230 R</b>	115...230 V AC/DC	4	4	-	5 A relay	<b>6ED1055-1FB00-0BA2</b>
<b>LOGO! DM16 24, Transistor DA</b>	24 V DC	8	8	-	0.3 A	<b>6ED1055-1CB10-0BA2</b>
<b>LOGO! DM16 24 R</b>	24 V DC	8	8	-	5 A relay	<b>6ED1055-1NB10-0BA2</b>
<b>LOGO! DM16 230 R</b>	115...230 V AC/DC	8	8	-	5 A relay	<b>6ED1055-1FB10-0BA2</b>

## Analog expansion modules

These modules provide additional analog inputs and outputs, enabling you to connect and control various analog devices and sensors. With the analog expansion modules, you can integrate LOGO! into a wide variety of applications requiring precise analog signal processing and control.

	Power supply	Digital inputs	Digital outputs	Analog inputs	Outputs	Article No.
<b>LOGO! AM2 0...10 V or 0/4...20 mA</b>	12...24 V DC	10-bit resolution	-	2	-	<b>6ED1055-1MA00-0BA2</b>
<b>LOGO! AM2 RTD -50...200 °C, 2/3 wire (Pt100/1000)</b>	12...24 V DC	0.25 °C resolution	-	2	-	<b>6ED1055-1MD00-0BA2</b>
<b>LOGO! AM2 AQ with 2 analog outputs</b>	24 V DC	10-bit resolution	-	-	0...10 V DC / 0/4...20 mA	<b>6ED1055-1MM00-0BA2</b>

# LOGO! Communication Modules seamless connectivity

The LOGO! communication modules offer additional options for integrating the logic module into a wide variety of applications. From connectivity in building technology (CMK), via flexible network connections (CSM), to mobile communications applications (CMR) or flexible data exchange and the most versatile communication options (CIM).

## LOGO! CMR 2040



### Communication module for LTE and GPS

The Siemens LOGO! CMR2040 is a communication module for LTE mobile networks, designed to work with the LOGO! logic module. It enables cost-effective remote monitoring and control of distributed plants and systems via text messages or emails. The CMR2040 can send and receive text messages, remotely switch digital outputs, determine position via GPS, and synchronize time with an NTP server or mobile network. It features 2 digital inputs, 2 transistor outputs, GPS and mobile antenna connectors, and a compact design.

**6GK7142-7EX00-0AX0**

#### Antennas

GPS antenna ANT895-6ML	<b>6GK5895-6ML00-0AA0</b>
Flexible connecting cable	<b>6XV1875-5LH50</b>
GRPS/LTE antenna ANT794-4MR	<b>6NH9860-1AA00</b>

## LOGO! CSM



### Switch with 4 ports

The LOGO! CSM is a compact, unmanaged Ethernet switch module for expanding LOGO! logic modules. It features four RJ45 ports for connecting LOGO! devices to an Ethernet network. Optimized for space-saving connection to LOGO! 8, it suits industrial and industry-oriented applications, enabling easy networking and integration into building automation or machine control systems.

**6GK7177-1MA20-0AA0**

## LOGO! CMK2000



### Communication module for integration into KNX building bus systems

The LOGO! CMK2000 is a communication module that enables the LOGO! 8 logic module to function as a smart controller in a KNX building system bus. It integrates switches and dimmers into the automation system using KNX technology, allowing one switch to control and dim various lights and adjust ambient temperature. The CMK2000 supports up to 50 configurable communication objects, offering flexibility for custom parameters and centralized functions.

**6BK1700-0BA20-0AA0**

## LOGO! CIM



### Several communication protocols included in just one device

LOGO! CIM is a communication interface module for the LOGO! 8.3 logic module. It enables data exchange via LOGO! Communication, Modbus RTU, Modbus TCP, and RESTful API. With an integrated 4-port switch, it allows communication with Siemens and third-party sensors, actuators, and controllers. The modular system with GSM units enables worldwide deployment and location tracking via GNSS. LOGO! CIM also supports cloud connectivity for data visualization, time synchronization, and SMS sending through services like AWS.

**6ED1055-5MC08-0BA1**

# Small. Clever. LOGO! Power

LOGO! Power by Siemens is a compact, efficient power supply unit for distribution boards, offering high efficiency across all loads and minimal power loss during idle times. It supports wide-range inputs for single-phase mains and DC power, integrates flexibly with distribution boards, and can enhance availability with add-on-modules.



## LOGO! Power Supplies

### 24 V

LOGO! Power 24 V / 0.6 A	18 mm wide	6EP3330-6SB00-0AY0
LOGO! Power 24 V / 1.3 A	36 mm wide	6EP3331-6SB00-0AY0
LOGO! Power 24 V / 2.5 A	54 mm wide	6EP3332-6SB00-0AY0
LOGO! Power 24 V / 4.0 A	72 mm wide	6EP3333-6SB00-0AY0
LOGO! Power 24 V / 4.0 A (ATEX)	72 mm wide	6EP3333-6SC00-0AY0

### 15 V

LOGO! Power 15 V / 1.9 A	36 mm wide	6EP3321-6SB10-0AY0
LOGO! Power 15 V / 6.3 A	54 mm wide	6EP3322-6SB10-0AY0

### 12 V

LOGO! Power 12 V / 0.9 A	18 mm	6EP3320-6SB00-0AY0
LOGO! Power 12 V / 1.9 A	36 mm	6EP3321-6SB00-0AY0
LOGO! Power 12 V / 4.5 A	54 mm	6EP3322-6SB00-0AY0

### 5 V

LOGO! Power 5 V / 3.0 A	36 mm	6EP3310-6SB00-0AY0
LOGO! Power 5 V / 6.3 A	54 mm	6EP3311-6SB00-0AY0

### LOGO! Inrush Current Limiter

LOGO! ICL230	For limiting the inrush current to 5 A of devices connected to 100 – 240 V AC. 18 mm wide	6EP4683-6LB00-0AY0
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### LOGO! Contact switching module

LOGO! Contact Switching Module 24	For direct switching of resistive loads up to 20 A and motors up to 4 kW, 24 V DC	6ED1057-4CA00-0AA0
LOGO! Contact Switching Module 230	For direct switching of resistive loads up to 20 A and motors up to 4 kW, 230 V AC	6ED1057-4EA00-0AA0



## LOGO! TDE

### Everything in view

LOGO! TDE is a text display device that provides an affordable interface for machine operators. It allows displaying messages and alarms, controlling parameters, and querying their status. Key features include displaying up to 50 messages with an integrated acknowledgment function, a display with six lines and 20 characters per line for plain text messages, and password protection for switching between operator and admin modes.

**6ED1055-4MH08-0BA1**

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## LOGO! Soft Comfort

### The soul of LOGO!

LOGO! Soft Comfort is the engineering software for the LOGO! logic module from Siemens. It allows users to create programs by selecting and connecting predefined function blocks via drag and drop. The software offers offline and online testing, simulation, and archiving of circuit programs. Users can create custom functions as macro modules and take advantage of professional documentation features. LOGO! Soft Comfort supports programming in Function Block Diagram (FBD) and Ladder Diagram (LAD) languages.

**6ED1058-0BA08-0YA1**

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## LOGO! Starter Kit

### Getting started



Successful automation through the optimal combination of hardware and software. We help you get started easily to the LOGO! world through our LOGO! Starter Kits. With the inexpensive complete packages, you can quickly and easily discover the benefits and possibilities of the logic module. All Starter Kits are individually equipped to meet your requirements and always include the latest version of the logic module and software. Unpack, plug in and get started!

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<b>LOGO! Starter Kit 12/24 V</b>	<b>6ED1057-4BA01-0AA0</b>
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<b>LOGO! Starter Kit 230 V</b>	<b>6ED1057-4BA03-0AA0</b>
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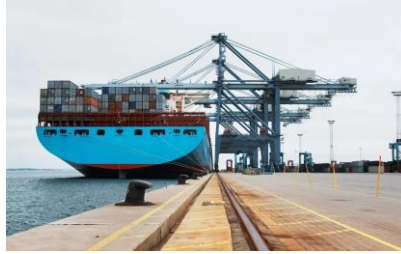
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<b>LOGO! Starter Kit TDE</b>	<b>6ED1057-4BA11-0AA0</b>
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# SIPLUS LOGO! for extreme environments

SIPLUS LOGO! controllers are compact, robust units designed for extreme environments, offering high performance and efficiency with a small footprint. They feature wide-range input compatibility, operate across a large temperature range, hold comprehensive certifications, and handle capacitive loads with ease, making them universally applicable.




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## SIPLUS LOGO! Basic Modules with display

**SIPLUS LOGO! 24CE**  
6AG1052-1CC08-7BA1

**SIPLUS LOGO! 12/24RCE**  
6AG1052-1MD08-7BA1

**SIPLUS LOGO! 24RCE**  
6AG1052-1HB08-7BA1

**SIPLUS LOGO! 230RCE**  
6AG1052-1FB08-7BA1

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## SIPLUS LOGO! Basic Modules without display

**SIPLUS LOGO! 12/24CEO**  
6AG1052-2CC08-7BA1

**SIPLUS LOGO! 12/24RCEO**  
6AG1052-2MD08-7BA1

**SIPLUS LOGO! 24RCEO**  
6AG1052-2HB08-7BA1

**SIPLUS LOGO! 230RCEO**  
6AG1052-2FB08-7BA1

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## SIPLUS LOGO! Expansion Modules

**SIPLUS LOGO! DM8 24**

6AG1055-1CB00-7BA2

**SIPLUS LOGO! DM8 24R**

6AG1055-1HB00-7BA2

**SIPLUS LOGO! DM8 12/24R**

6AG1055-1MB00-7BA2

**SIPLUS LOGO! DM8 230 V**

6AG1055-1FB00-7BA2

**SIPLUS LOGO! DM16 24R**

6AG1055-1NB10-7BA2

**SIPLUS LOGO! AM2**

6AG1055-1MA00-7BA2

**SIPLUS LOGO! AM2 RTD**

6AG1055-1MD00-7BA2

**SIPLUS LOGO! AM2 AQ**

6AG1055-1MM00-7BA2

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## SIPLUS LOGO! Power

**SIPLUS LOGO! Power 24 V/1.3 A**

6AG1331-6SB00-7AY0

**SIPLUS LOGO! Power 24 V/2.5 A**

6AG1332-6SB00-7AY0

**SIPLUS LOGO! Power 24 V/4 A**

6AG1333-6SB00-7AY0

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## SIPLUS LOGO! Mounting Kit

**SIPLUS LOGO! Front panel assembly kit 4 MW, with keys**

6AG1057-1AA00-0AA3

**SIPLUS LOGO! Front panel assembly kit 8 MW, with keys**

6AG1057-1AA00-0AA2

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You can find information on this at:

**<http://support.automation.siemens.com>**

To ensure the secure operation of a plant or machine it is also necessary to take suitable preventive action (e.g. cell protection concept) and to integrate the automation and drive components into a state-of-the-art holistic industrial security concept for the entire plant or machine.

Products used from other manufacturers should also be taken into account here.

You can find additional information under:

**[www.siemens.com/industrialsecurity](http://www.siemens.com/industrialsecurity)**