

SIEMENS

Ingenuity for life

Engineered with LOGO! Soft Comfort

Simply ingenious for
small automation tasks

Logic module LOGO!

[siemens.com/logo](https://www.siemens.com/logo)

LOGO! 8 – Small is beautiful

Simple installation, minimum wiring, user-friendly programming: You can easily implement small automation projects with LOGO!, the intelligent logic module from Siemens. The LOGO! logic module saves space in the control cabinet, and lets you easily implement functions, such as time-delay switch, time relay, counter and auxiliary relay.

The LOGO! Soft Comfort V8.1 engineering software offers not only familiar operation in single mode but also easy operation in network mode. Automatic configuration of communication displayed in the network view, the ability to open as many as three programs at once, and the use of drag & drop to easily transfer signals from one program to another – these are just a few of the many user-friendly options.

The latest generation of logic modules

- 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
- Integrated web server in all basic units
- Seven digital modules and three analog modules
- Maximum configuration: 24 digital inputs, 20 digital outputs, 8 analog inputs and 8 analog outputs
- The temperature range has been extended to between $-20\text{ }^{\circ}\text{C}$ and $+55\text{ }^{\circ}\text{C}$ for LOGO! basic units as of product version FS:04 and for expansion modules as of product version FS:03
- Time synchronization between LOGO! basic units (for FS:04)

User-friendly display

- A six-line display with 16 characters per line allows message texts to be clearly formulated
- Choice of white, orange, and red backlighting for many options, such as the highlighting of alarm statuses, for example

Ethernet for everybody and everything – new standard with LOGO! 8

- Integrated Ethernet interface for the entire LOGO! 8 product family. This makes it possible for LOGO! modules to communicate with each other and with all SIMATIC S7 systems via Ethernet
- Modbus TCP/IP is the new communication protocol for LOGO! 8 (FS:04). This enables LOGO! to act as either a client or a server
- With the LOGO! CSM add-on module as an Ethernet 4-port switch expanding the Ethernet interfaces, small local Ethernet networks can also be implemented in a cost-effective manner
- Time synchronization via NTP – now also between LOGO! basic modules (FS:04)

Integrated web server – it couldn't be easier

- Integrated web server in all basic units for monitoring and control with LOGO! via WLAN and the Internet; password-protected and suitable for all conventional browsers
- The web server is easy to configure via mouse click in the software – absolutely no HTML programming knowledge required
- Users can select the desired display options to match the LOGO! display or the TDE display. Check a box for the web server – done! LOGO! 8 is able to be operated via smartphone, tablet, or PC with the same look and feel as the LOGO! 8 or TDE display; LOGO! 8 router connection required



Remote communication via the cellular wireless network

- With the LOGO! CMR, a cell phone or tablet can receive status data and alarms from the LOGO! station via text message or email
- The user can configure text messages as plaintext (e.g. FAN_ON)
- Secure remote access via https or Open VPN in the mobile network allows configuration changes and diagnostics both on the web server of the LOGO! CMR and on LOGO! 8. The program can be uploaded and downloaded to and from LOGO! 8
- Position detection via GPS can be used, e.g. for cost-effective container tracking. The position is reported to the LOGO! basic module or passed on to a central office by text message or email
- Via LOGO! CMR, the clock time of the LOGO! 8 can be synchronized with an accessible NTP server, a GPS or a mobile wireless signal



Text display

- LOGO! TDE with two Ethernet interfaces
- The Ethernet connection can bridge a distance of over ten meters between LOGO! TDE and LOGO! 8
- Large display with six lines and 20 characters per line for informative messages in plaintext
- As with the LOGO! display, the TDE offers selectable white, orange, and red backlighting for optical highlighting



Software quite simple – LOGO! Soft Comfort

- Familiar, easy operation in single mode and incredibly simple configuration in network mode
- Three programs can be displayed side-by-side; drag and drop can be used to easily drag signals from one program to another
- Smooth migration of programs from previous versions
- LOGO! Access Tool for direct transfer of process values into an Excel table during operation



The new module for building automation with KNX

- With the LOGO! CMK2000 communication module, the LOGO! 8 can be implemented as an intelligent controller in the KNX system
- LOGO! is easy to connect to CMK2000 via Ethernet, which means the complete LOGO! hardware configuration can be used for KNX
- Up to 50 communication objects can be configured via KNX, independent of the input and output points – meaning more flexibility for your project
- Autonomous processing of user programs, independent of KNX, evaluation of KNX and industrial sensors and control of KNX actuators
- Time and date synchronization as master or slave in networked systems



Ordering data

Designation	Description	DI ¹⁾	DQ ²⁾	AI ³⁾	Outputs	Article No.
LOGO! 8 basic units						
LOGO! 8 Basic with 6-line LCD display and cursor keys, Ethernet interface						
LOGO! 24 CE	24 V DC	8, of which 4 can be used as AI (0...10 V)	4	Up to 4 (0...10 V)	0.3 A transistor	6ED1052-1CC01-0BA8
LOGO! 12/24 RCE	12...24 V DC	8, of which 4 can be used as AI (0...10 V)	4	Up to 4 (0...10 V)	10 A relay	6ED1052-1MD00-0BA8
LOGO! 24 RCE	24 V AC/DC	8	4	–	10 A relay	6ED1052-1HB00-0BA8
LOGO! 230 RCE	115...230 V AC/DC	8	4	–	10 A relay	6ED1052-1FB00-0BA8



Ordering data

Designation	Description	DI ¹⁾	DQ ²⁾	AI ³⁾	Outputs	Article No.
LOGO! 8 basic units						
LOGO! 8 Pure without LCD display and without cursor keys, Ethernet interface						
LOGO! 24 CEo	24 V DC	8, of which 4 can be used as AI (0...10 V)	4	Up to 4 (0...10 V)	0.3 A transistor	6ED1052-2CC01-0BA8
LOGO! 12/24 RCEo	12...24 V DC	8, of which 4 can be used as AI (0...10 V)	4	Up to 4 (0...10 V)	10 A relay	6ED1052-2MD00-0BA8
LOGO! 24 RCEo	24 V AC/DC	8	4	–	10 A relay	6ED1052-2HB00-0BA8
LOGO! 230 RCEo	115...230 V AC/DC	8	4	–	10 A relay	6ED1052-2FB00-0BA8

Ordering data

Designation	Description Power supply	DI ¹⁾	DQ ²⁾	AI ³⁾	Outputs	Article No.
LOGO! 8 expansion modules						
Digital I/O expansion modules						
LOGO! DM8 24, Transistor DA	24 V DC	4	4	–	0.3 A	6ED1055-1CB00-0BA2
LOGO! DM8 12/24 R	12...24 V DC	4	4	–	5 A relay	6ED1055-1MB00-0BA2
LOGO! DM8 24 R	24 V AC/DC	4	4	–	5 A relay	6ED1055-1HB00-0BA2
LOGO! DM8 230 R	115...230 V AC/DC	4	4	–	5 A relay	6ED1055-1FB00-0BA2
LOGO! DM16 24, Transistor DA	24 V DC	8	8	–	0.3 A	6ED1055-1CB10-0BA2
LOGO! DM16 24 R	24 V DC	8	8	–	5 A relay	6ED1055-1NB10-0BA2
LOGO! DM16 230 R	115...230 V AC/DC	8	8	–	5 A relay	6ED1055-1FB10-0BA2



Ordering data

Designation	Description Power supply	DI ¹⁾	DQ ²⁾	AI ³⁾	Outputs	Article No.
LOGO! 8 expansion modules						
Analog expansion modules						
LOGO! AM2 0...10 V or 0/4...20 mA	12...24 V DC	10-bit resolution	–	2	–	6ED1055-1MA00-0BA2
LOGO! AM2 RTD –50...200 °C, 2/3-wire (Pt100/1000)	12...24 V DC	0.25 °C resolution	–	2	–	6ED1055-1MD00-0BA2
LOGO! AM2 AQ with 2 AQ ⁴⁾	24 V DC	10-bit resolution	–	–	0...10 V DC / 0/4...20 mA	6ED1055-1MM00-0BA2
Communication and networking						
LOGO! CSM12/24	12...24 V DC				4x RJ45 Port Ethernet Switches	6GK7177-1MA20-0AA0
LOGO! CMR2020	Communication module for connecting to GSM/GPRS ⁵⁾					6GK7142-7BX00-0AX0
LOGO! CMR2040	Communication module for connecting to GSM/GPRS/UMTS/LTE ⁵⁾					6GK7142-7EX00-0AX0
LOGO! CMK2000	Communication module for building automation with KNX					6BK1700-0BA20-0AA0
Antennas						
GPS antenna ANT895-6ML	with N connect female connector for reception of GPS data on the LOGO! CMR					6GK5895-6ML00-0AA0
Flexible connecting cable	with N connect/SMA male for linking GPS antenna and LOGO! CMR					6XV1875-5LH50
GPRS/LTE antenna ANT794-4MR	Rod antenna with 5 m flexible connecting lead SMA male for establishing a mobile connection via the LOGO! CMR					6NH9860-1AA00

⁵⁾ Country approvals: www.siemens.com/mobilenetwork-approvals

Ordering data

Designation	Description	Article No.
LOGO! 8 Software		
LOGO! Soft Comfort V8.1	for Windows 10, 8, 7, XP, Linux and Mac OS X; on DVD, backward compatible	6ED1058-0BA08-0YA1
LOGO! 8 Text Display HMI		
LOGO! TDE Text Display		6ED1055-4MH00-0BA1



Ordering data

Designation	Description	Article No.
LOGO! 8 Power Supplies		
LOGO! Power	for converting the line voltage of 85/240 V AC / 110...300 V DC to operating voltages of 12 V DC and 24 V DC	
LOGO! Power 24 V / 1.3 A	54 mm wide	6EP1331-1SH03
LOGO! Power 24 V / 2.5 A	72 mm wide	6EP1332-1SH43
LOGO! Power 24 V / 4 A	90 mm wide	6EP1332-1SH52
LOGO! Power 12 V / 1.9 A	54 mm wide	6EP1321-1SH03
LOGO! Power 12 V / 4.5 A	72 mm wide	6EP1322-1SH03

Ordering data

Designation	Description	Article No.
LOGO! 8 Starter Kits		
	In Tanos Box with: LOGO! 8, LOGO! Soft Comfort V8, WinCC Basic V13, Ethernet cable	
LOGO! 8 12/24 V Starter Kit	LOGO! 12/24 RCE, LOGO! Power 24 V, 1.3 A	6ED1057-3BA00-0AA8
LOGO! 8 230 V Starter Kit	LOGO! 230 RCE	6ED1057-3BA02-0AA8
LOGO! 8 TDE Starter Kit	LOGO! 12/24 RCEo, LOGO! Power 24 V, 1.3 A, LOGO! TDE	6ED1057-3BA10-0AA8
LOGO! 8 12/24 V + KP300 Basic Starter Kit	LOGO! 12/24 RCE, LOGO! Power 24 V, 1.3 A, SIMATIC HMI KP300 Basic mono PN	6AV2132-0HA00-0AA1
LOGO! 8 12/24 V + KTP400 Basic Starter Kit	LOGO! 12/24 RCE, LOGO! Power 24 V, 1.3 A, SIMATIC HMI KTP400 Basic	6AV2132-0KA00-0AA1
LOGO! 8 12/24 V + KTP700 Basic Starter Kit	LOGO! 12/24 RCE, LOGO! Power 24 V, 1.3 A, SIMATIC HMI KTP700 Basic	6AV2132-3GB00-0AA1



Stephan Libera, member of Volunteer Fire Department in Hanover, Germany, and LOGO! fan

Stephan Libera relies on LOGO! 8 for light control during simulated training situations in the fire exercise facility of the Hanover Fire Department.



Daniel Miehling, homeowner and LOGO! fan

Daniel Miehling relies on LOGO! 8 for convenience and safety in the home, from the automatic control of blinds and lights to presence simulation.

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Siemens provides automation and drive products with industrial security functions that support the secure operation of plants or machines. They are an important component in a holistic industrial security concept. With this in mind, our products undergo continuous development. We therefore recommend that you keep yourself informed about updates and upgrades for our products and always use the latest version of each product.

You can find information on this at:

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

You can register for a product-specific newsletter here.

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.

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