

LOGO!  
Simply different – simply ingenious



# Micro Automation

Answers for industry.

**SIEMENS**

# Switching and controlling – the profitable way



## Transport facilities

- Conveyor systems
- Hoisting platforms
- Elevators
- Silo facilities
- Livestock feed delivery



## Residential and commercial building services

- Interior and exterior lighting control
- Door/gate control
- Shutter, sun blind and awning control
- Irrigation system control



## Unique applications

- Solar-electric systems
- Marine
- Harsh environments
- Display panels and traffic control signs

Every decision maker faces mounting pressure to increase productivity and efficiency, through optimizing energy costs and maintenance downtime. Those with innovative ideas are looking to their industrial partners for flexible controllers that perform multiple operations requiring minimal troubleshooting and maintenance. No other logic module satisfies these requirements better than LOGO!. The original and world's number one logic module for switching and control.



### Heating/ventilation/ air conditioning

- Energy management
- Heating Control
- Cooling systems
- Ventilation systems
- Air conditioning systems



### Machine controls

- Motor, pump and valve controls
- Air compressors
- Exhaust and filtering systems
- Water-treatment plants
- Woodworking machinery
- Etching and purification plants



### Operational monitoring systems

- Access control
- Vehicle control monitoring
- Alarm systems
- Level limit monitoring
- Traffic light control systems
- Baggage handling

### Advanced intelligent technology

The LOGO! system from Siemens is the ideal controller for simple automation tasks in industry and building services. The intelligent logic module features maximum user friendliness and satisfies nearly every functional requirement with high speed precision, efficient instructions and memory design. Applications can easily be accomplished with LOGO! and its large selection of expansion modules.

### Maximum flexibility through consistent modularity

The consistently modular design of LOGO! makes it extremely flexible. A wide range of modules allows individual expansion of LOGO! to 24 digital inputs, 16 digital outputs, 8 analog inputs and 2 analog outputs! Communications modules are also available for AS-Interface and KNX (Instabus network for building automation). Now it is also possible to use the analog output module to solve simple closed-loop control tasks. Heating and cooling systems can be designed with the RTD PT100 module using special functions for PI control, ramp response and analog multiplexer.

### Proven millions of times – in numerous applications

Together with the LOGO! Soft Comfort software, configuring of the logic module is simply intuitive: program generation, project simulation and documentation are accomplished using drag and drop functionality, allowing maximum ease of operation. LOGO! includes maximum functionality: backlit display, efficient line usage, and the capability for directly modifying message texts for optimum customer interaction. These are reasons why LOGO! has been proven millions of times in a multitude of applications.

# Even more ingenious – LOGO! also with external text display



Introducing the new remote LOGO! TD text display, the newest accessory for the line of LOGO! products. The LOGO! TD provides an affordable interface for equipment builders and their customers, even for simple relay switching systems. Adjustments and troubleshooting alarms are easily handled using the LOGO! TD with built-in operator functions and diagnostics.

The expansion and communications modules, as well as programs from earlier LOGO! generations are compatible when upgrading to the new Basic or Pure logic module to be able to utilize the LOGO! TD.

### Performance optimized further

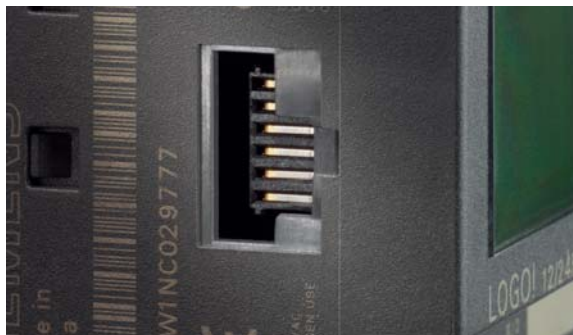
The new generation LOGO! 0BA6 now offers 200 function blocks due to a more than 50% expansion of the program memory. Other hardware upgrades include up to 4 of the digital inputs on the 12/24 & 24 V DC variants being usable as 0-10 V analog inputs and the other 4 as optional 5 kHz high speed counter inputs.

### Expanded Functionality

The new LOGO! offers maximum visualisation with up to 50 four-line message texts with up to 32 characters per line, clearly displaying all relevant machine parameters on either or both the built-in LCD or remote LOGO! TD. 'Ticker-text', bar graph or I/O status switching enhance this further. Additional applications are now possible with arithmetic and pulse width modulation (PWM) function blocks. The 'Teleservice' feature provides for remote connectivity for program monitoring or editing – easily paying for itself in terms of expensive on-site servicing of widely distributed systems.

### Truly Remote Text Display

You can now optionally connect an additional text display to any of the new LOGO! controllers without needing a dedicated communications module. Highlighting its ease of implementation: the same message text function block is used for either internal or external display where the message texts can also be selectively output to either or both. For example, you can output messages relevant to operation on the text display and service information only in the switching cabinet. The backlighting duration of both displays is controllable from the program and can also be set for continuous operation.



Simple connection of the LOGO! TD text display

# The LOGO! hardware



LOGO! offers the widest range of capabilities and successful implementation of extensive applications with the option of selecting from 38 integrated functions and linking up to 200 of them in the user program. Operator control and monitoring are made extremely user-friendly by means of a 4 line, 32 characters per line, backlit display. This allows for the display of text, action items and current values, bar graphs and I/O status. Parameter values can also be changed in the message text. The LOGO! is suitable for almost any small industrial or non-manufacturing commercial application.

LOGO! – simply more.

## LOGO! reduces costs by up to 50%

- Replaces many conventional switching control devices
- Requires less control cabinet space
- Fewer accessories
- Less warehouse space for fewer components
- Saves on service because it is practically wear-free

## LOGO! reduces time requirements by up to 70%

- Built-in DIN rail or panel mounting
- Simplified wiring and panel layout
- Can be programmed using LOGO! Soft Comfort
- Pretested sample programs can be used at no charge
- Real-time clock/calendar with daylight savings time
- User friendly and easy to learn documentation

# The LOGO! software



LOGO! Soft Comfort makes programming fast, yet simply elegant. Create ladder and function block diagrams with ease by selecting, dragging and dropping functions and making the logical connections. The included offline simulator for both the 'function block' or 'ladder' representation, allows programs to be tested and debugged without any connected hardware, providing significant savings on installation time and cost. Professional documentation generation is automated during program editing and configuration.

LOGO! Soft Comfort – simply professional

## LOGO! reduces space requirements by up to 70%

- Modules based on a 4 width industry standard dimension replace a wide variety of relays, timer switches and contactor relays
- 8 basic and 30 special functions replace many conventional switching devices

## Universal application


- Vibration-resistant
- High level of electromagnetic compatibility (EMC)
- Industrial standard
- For all climatic conditions
- Radio interference suppression class B
- All necessary certifications for use anywhere in the world
- Marine approval

# The LOGO! functions

With the eight basic functions, you can create simple switching programs quickly either at the device or on the PC.


With the 30 special functions, you can also create complex switching programs quickly and easily. An extensive selection of sample applications can be found at [www.siemens.com/logo](http://www.siemens.com/logo)

## The eight basic functions


**AND**  
 Series connection  
 NO contact

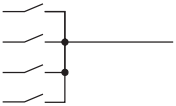
```

In1 ──┬── B1
      │  &
In2 ──┴──
In3 ──┬── +Q1
      │  &
In4 ──┴──
  
```


**NOR (or not)**  
 Series connection  
 NC contact

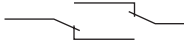
```

In1 ──┬── B1
      │  ≥1
In2 ──┴──
In3 ──┬── +Q1
      │  ≥1
In4 ──┴──
  
```


**OR**  
 Parallel connection  
 NO contact

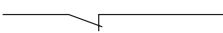
```

In1 ──┬── B1
      │  ≥1
In2 ──┴──
In3 ──┬── +Q1
      │  ≥1
In4 ──┴──
  
```


**XOR (Exclusive OR)**  
 Dual changeover  
 contact


```

In1 =1 ┬── B1
In2 ──┴── +Q1
  
```


**NOT**  
 Inverter

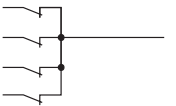
```

In ┬── B1
   │  1
   └── +Q1
  
```


**AND**  
 with edge evaluation  
 (pos. edge)

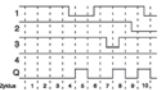
```

In1 ──┬── B1
      │  &↑
In2 ──┴──
In3 ──┬── +Q1
      │  &↑
In4 ──┴──
  
```


**NAND (and not)**  
 Parallel connection  
 NC contact

```

In1 ──┬── B1
      │  &
In2 ──┴──
In3 ──┬── +Q1
      │  &
In4 ──┴──
  
```

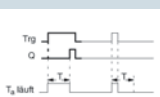

**NAND**  
 with edge evaluation  
 (neg. edge)

```

In1 ──┬── B1
      │  &↓
In2 ──┴──
In3 ──┬── +Q1
      │  &↓
In4 ──┴──
  
```

## The 30 special functions

ON delay



```

Trg ┬──┬── B1
    │  │  &
    └──┬── +Q1
        &
  
```

OFF delay



```

Trg ┬──┬── B1
    │  │  R
    └──┬── +Q1
        &
  
```

ON/OFF delay



```

Trg ┬──┬── B1
    │  │  &
    └──┬── +Q1
        &
  
```

Retentive ON delay



```

Trg ┬──┬── B1
    │  │  R
    └──┬── +Q1
        &
  
```

Impulse relay/pulse output



```

Trg ┬──┬── B1
    │  │  &
    └──┬── +Q1
        &
  
```

Impulse relay/edge-triggered



```

Trg ┬──┬── B1
    │  │  &
    └──┬── +Q1
        &
  
```

Clock-pulse generator



```

En ┬──┬── B1
   │  │  In
   └──┬── +Q1
       &
  
```



# LOGO! and its modules



## LOGO! Basic and LOGO! Pure

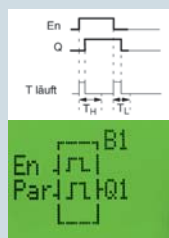
- Different voltages, i. e. 12 V DC, 24 V AC/DC, 115/240 V AC/DC
  - Can be used for a wide range of applications
- Automatic changeover for configured daylight saving time
  - Reduces maintenance overhead
- Password protection
  - Protects your engineering IP
- 38 integrated, pre-tested functions
  - No additional devices, such as elapsed time counter, are required
- Linking of 200 functions is possible
  - Extensive applications can be implemented without restrictions
- Eight digital inputs (incl. four AIs at 12/24 V DC) and four digital outputs on board
- Display of message texts, action items and current values as well as direct modification of the values on the display (except for Pure versions)
- Retentive data memory
  - Protects current values against loss in the event of a power failure
- Flexibly expandable up to 24 DIs, 16 DOs, 8 AIs and 2 AOs
  - Protects original investment
  - Suitable for a wide variety of applications
- Software LOGO! Soft Comfort V6 for user-friendly generation of control programs on PC; suitable for a variety of operating systems, such as Windows 95/98, NT 4.0, Me, 2000, XP, Vista, MAC OS X 10.4 with J2SE 1.5.0 and SUSE LINUX 10.0.
- Connection facility for remote text display on all OBA6 basic devices

## Digital expansion modules

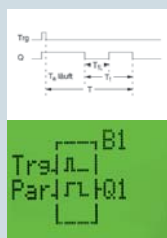
Four versions for expanding the digital inputs and outputs:

- **DM8 230R/DM16 230R**
  - Supply voltage 115/240 V AC/DC
  - Four/eight 120/230 V AC/DC digital inputs
  - Four/eight digital output relays, 5 A per relay
- **DM8 24/DM16 24**
  - Supply voltage 24 V DC
  - Four/eight 24 V DC digital inputs
  - Four/eight digital output transistors, 0.3 A
- **DM8 12/24R**
  - Supply voltage 12/24 V DC
  - Four 12/24 V digital inputs
  - Four digital output relays, 5 A per relay
- **DM8 24R**
  - Supply voltage 24 V AC/DC
  - Four 24 V AC/DC digital inputs, PNP or NPN
  - Four digital output relays, 5 A per relay
- **DM16 24R**
  - Supply voltage 24 V DC
  - Eight 24 V DC digital inputs
  - Eight digital output relays, 5 A per relay

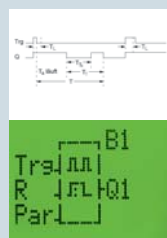
Pulse generator



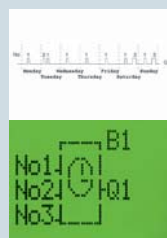
Stairlight switch



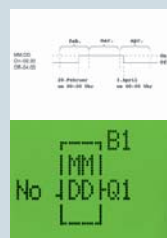
Convenience switch



One-week time switch



12-month time switch



Up and down counter



Operating hours counter



Threshold value switch



# The software

Simple – quick – professional

The LOGO! Soft Comfort software does it all – generating and testing control programs, simulating all functions and of course documentation is sensation-

ally easy with LOGO! Soft Comfort

using drag & drop on your PC. This is how it is done:

## Creating control programs

- Select function and position on the drawing surface
- Link selected functions by means of connecting lines
- Set function parameters using clear dialog window



## Analog expansion modules

Three modules for expanding analog and temperature I/O:

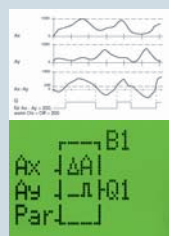
- **AM2**
  - Supply voltage 12/24 V DC
  - Two channels
  - 0 to 10 V or 0 to 20 mA typ.
- **AM2 PT100**
  - Supply voltage 12/24 V DC
  - Two channels
  - Type PT100
  - Measuring range  $-50\text{ }^{\circ}\text{C}$  to  $+200\text{ }^{\circ}\text{C}$
- **AM2 AQ**
  - Supply voltage 24 V DC
  - 2 analog outputs
  - Output range 0 to 10 V

## Communications modules

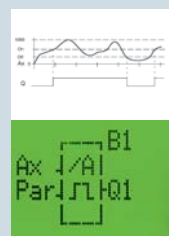
Speciality modules are also available for communication:

- **CM AS-Interface slave**
  - Supply voltage 12/24 V DC
  - 4 DIs/4 DOs as interface to AS-Interface master
- **CM EIB/KNX**
  - Supply voltage 24 V AC/DC
  - max. 16 DIs, 12 DOs, 8 AIs as interface to the KNX
  - Date and time can be synchronized via KNX
  - All digital and analog inputs/outputs are available on the KNX as communication objects
  - Dimmer and shutter actuators connected to the KNX can be activated in conformance with the system

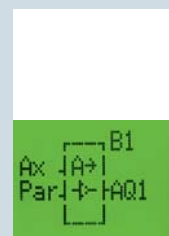
Analog comparator



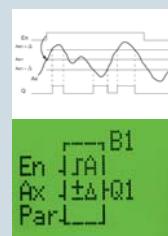
Analog threshold value switch



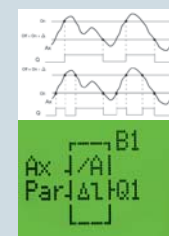
Analog amplifier



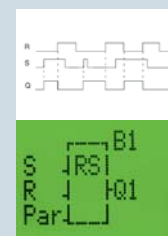
Analog monitoring



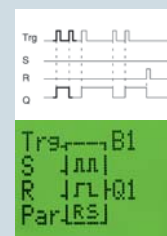
Analog differential threshold switch



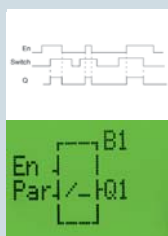
Latching relay



Current inrush relay



Software switch relay



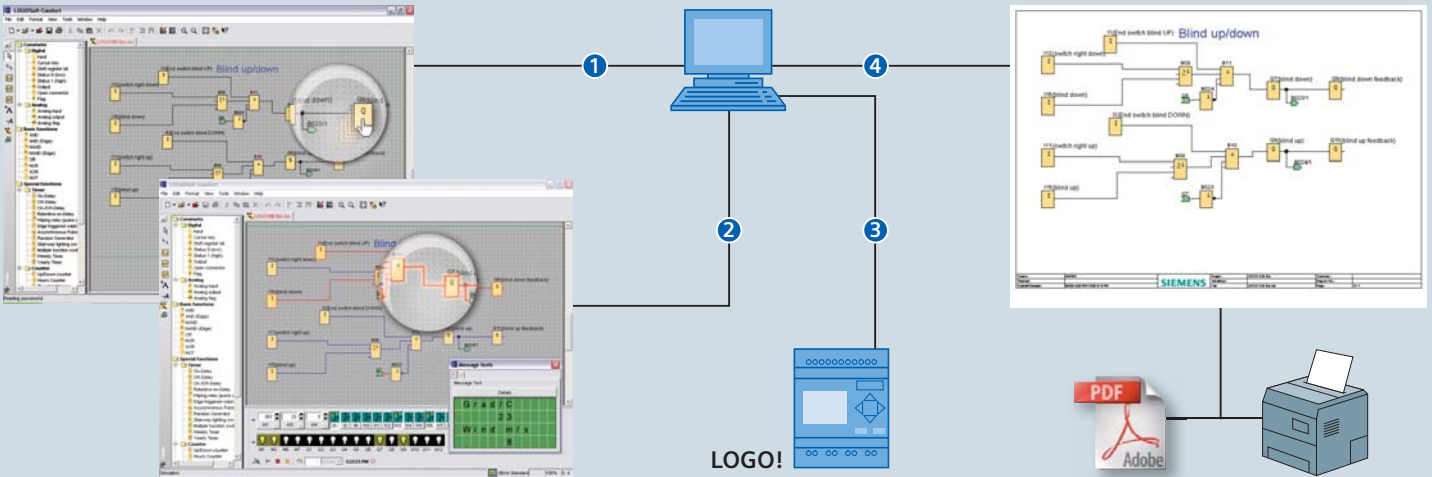
# LOGO! Soft Comfort

## 1 Creating

## 2 Simulating

## 3 Online testing

## 4 Documenting



### Commissioning with LOGO!

- Simulation of the entire switching process using all functions on the PC
- Analog signals can be simulated with real values (e. g. temperature – 20 °C to +80 °C)
- Time-controlled/cyclic simulation
- Simulation of clock time
- Pop-up window of the LOGO! display in the simulation
- Status display of all functions, parameters and current values
- Online test with display of statuses and current values of LOGO! in RUN mode now in function block and ladder diagram representations

### The documentation

- Each function can be provided with additional comments
- Each function can be provided with additional comments
- Additional assignment of names possible for inputs and outputs
- Any positioning and formatting of free text
- Clear representation of control program across several pages
- Professional printout with all necessary configuration information
- Separate printout of parameters and interface names possible
- Integration into standard Windows applications by storing as .pdf or .jpg file

NEW

NEW

NEW

Shift register

PI controller

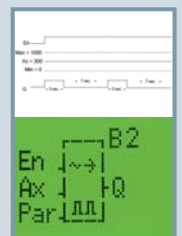
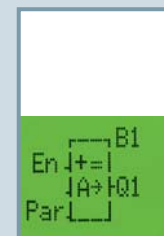
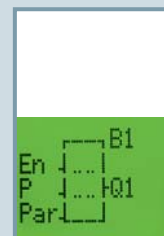
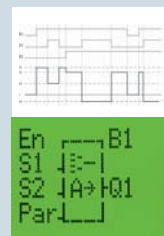
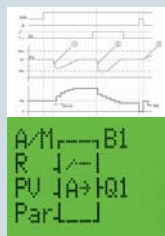
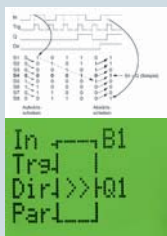
Ramp function

Analog multiplexer

Message text expanded

Arithmetic function

Pulse width modulation



# LOGO! modular – the technical details

| Basic units  | LOGO! 12/24RC <sup>1)</sup> , LOGO! 12/24RCo <sup>2)</sup>   | LOGO! 24 <sup>1)</sup> , LOGO! 24o <sup>2)</sup>  |
|--|--|---|
| Inputs   | 8  | 8   |
| of these usable as analog inputs                                     | 4 (0 to 10 V)  | 4 (0 to 10 V)   |
| Input/supply voltage   | DC 12/24 V   | DC 24 V   |
| Permissible range<br>On "0" signal<br>On "1" signal<br>Input current | 10.8 V DC to 28.8 V DC<br>Max. 5 V DC<br>Min. 8.5 V DC<br>1.5 mA (I3 to I6), 0.1 mA (I1, I2, I7, I8) | 20.4 V DC to 28.8 V DC<br>Max. 5 V DC<br>Min. 12 V DC<br>2 mA (I3 to I6), 0.1 mA (I1, I2, I7, I8) |
| Outputs  | 4 relays   | 4 transistors   |
| Continuous current   | 10 A for resistive load;<br>3 A for inductive load   | 0.3 A   |
| Short-circuit protection   | External fuse required   | Electronic (approx. 1 A)  |
| Operating frequency  | 2 Hz for resistive load;<br>0.5 Hz for inductive load  | 10 Hz   |
| Power consumption  | 0.7 to 2.1 W (12 V)<br>1.0 to 2.4 W (24 V)   | 0.7 to 1.3 W<br>1.0 to 1.8 W  |
| Cycle time   | < 0.1 ms/function  | < 0.1 ms/function   |
| Real-time clock/calendar/<br>retentive data memory backup            | Yes / typ. 80 h (2 years with battery module)  | –   |
| Connecting cables  | 2 x 1.5 mm <sup>2</sup> or 1 x 2.5 mm <sup>2</sup>   |   |
| Ambient temperature  | 0 to +55 °C  |   |
| Storage temperature  | –40 °C to +70 °C   |   |
| Radio interference suppression                                       | To EN 55011 (limit-value class B)  |   |
| Degree of protection   | IP20   |   |
| Approvals  | To VDE 0631, IEC 1131, UL, FM, CSA, ship-building certifications                                     |   |
| Mounting   | On 35-mm DIN rail, 4 WM wide, or wall mounting   |   |
| Dimensions   | 72 (4 WM) x 90 x 55 mm (W x H x D)   |   |

| Digital modules                                   | LOGO! DM8 12/24R                                     | LOGO! DM8 24<br>DM16 24                          |
|---|--|--|
| Inputs  | 4  | 4 / 8  |
| Input/supply voltage                              | 12 / 24 V DC   | 24 V DC  |
| Permissible range                                 | 10.8 to 28.8 V DC                                    | 20.4 to 28.8 V DC                                |
| On "0" signal<br>On "1" signal                    | Max. 5 V DC<br>Min. 8.5 V DC                         | Max. 5 V DC<br>Min. 12 V DC                      |
| Input current                                     | 1.5 mA   | 2 mA   |
| Outputs   | 4 relays   | 4 / 8 transistors                                |
| Continuous current I <sub>th</sub> (per terminal) | 5 A for resistive load<br>3 A for inductive load     | 0.3 A  |
| Short-circuit protection required                 | External fuse required                               | Electronic (approx. 1 A)                         |
| Operating frequency                               | 2 Hz for resistive load<br>0.5 Hz for inductive load | 10 Hz  |
| Power consumption                                 | 0.3 to 1.7 W at 12 V DC<br>0.4 to 1.8 W at 24 V DC   | 0.8 to 1.1 W *<br>0.8 to 1.7 W **                |
| Dimensions (W x H x D)                            | 36 (2 WM) x 90 x 53 mm                               | 36 (2 WM) x 90 x 53 mm<br>72 (4 WM) x 90 x 53 mm |

| LOGO! 24RC <sup>1)</sup> , LOGO! 24RCo <sup>2)</sup>                          | LOGO! 230RC <sup>1)</sup> , LOGO! 230RCo <sup>2)</sup>   |
|---|--|
| 8   | 8  |
| –   | –  |
| 24 V AC/DC  | 115 / 240 V AC/DC  |
| 20.4 to 28.8 V DC<br>20.4 to 26.4 V AC<br>Max. 5 V DC<br>Min. 12 V DC, 2.5 mA | 85 to 253 V AC<br>100 to 253 V DC<br>Max. 40 V AC / 30 V DC<br>Min. 79 V AC / 79 V DC, 0.08 mA           |
| 4 relays  | 4 relays   |
| 10 A for resistive load;<br>3 A for inductive load                            | 10 A for resistive load;<br>3 A for inductive load   |
| External fuse required  | External fuse required   |
| 2 Hz for resistive load;<br>0.5 Hz for inductive load                         | 2 Hz for resistive load;<br>0.5 Hz for inductive load  |
| 1.1 to 3.1 W<br>1.0 to 2.4 W  | 1.7 to 4.6 W (115 V AC)<br>3.6 to 6.0 W (240 V AC)<br>1.1 to 2.9 W (115 V DC)<br>1.4 to 3.6 W (240 V DC) |
| < 0.1 ms / function   | < 0.1 ms / function  |
| Yes / typ. 80 h (2 years with battery module)                                 | Yes / typ. 80 h (2 years with battery module)  |

| LOGO! DM8 24R<br>DM16 24R   | LOGO! DM8 230R<br>DM16 230R  |
|---|--|
| 4 / 8   | 4 / 8  |
| 24 V AC/DC *<br>24 V DC **  | 115 / 240 V AC/DC  |
| 20.4 to 28.8 V DC, 20.4 to 26.4 V AC *  | 85 to 265 V AC, 100 to 253 V DC  |
| Max. 5 V AC / DC<br>Min. 12 V AC / DC   | Max. 40 V AC<br>Min. 79 V AC   |
| 2.5 mA*, 2.0 mA**   | 0.08 mA  |
| 4 / 8 relays  | 4 / 8 relays   |
| 5 A for resistive load<br>3 A for inductive load                                      | 5 A for resistive load<br>3 A for inductive load   |
| External fuse required  | External fuse required   |
| 2 Hz for resistive load   | 2 Hz for resistive load  |
| 0.5 Hz for inductive load   | 0.5 Hz for inductive load  |
| 0.4 to 1.8 W at 24 V DC *<br>0.9 to 2.7 W at 24 V AC *<br>0.7 ... 2.5 W at 24 V DC ** | 1.1 to 3.5 W (115 V AC) ... 4.5 **<br>2.4 to 4.8 W (240 V AC) ... 5.5 **<br>0.5 to 1.8 W (115 V DC) ... 2.9 **<br>1.2 to 2.4 W (240 V DC) ... 4.8 ** |
| 36 (2 WM) x 90 x 53 mm<br>72 (4 WM) x 90 x 53 mm                                      | 36 (2 WM) x 90 x 53 mm<br>72 (4 WM) x 90 x 53 mm   |

R: Relay outputs, C: Clock, o: No display

\*: for the DM8 module, \*\*: for the DM16 module

<sup>1)</sup>: As SIPLUS component also for extended temperature range  
–25 °C to +70 °C and aggressive atmosphere/thawing  
([www.siemens.com/siplus](http://www.siemens.com/siplus))

<sup>2)</sup>: As SIPLUS component also for extended temperature range  
–40 °C to +70 °C and aggressive atmosphere/condensation  
([www.siemens.com/siplus](http://www.siemens.com/siplus))

# LOGO! modular – the technical details

| Analog modules                               | LOGO! AM2 <sup>2)</sup>      | LOGO! AM2 PT100              |
|--|------------------------------|------------------------------|
| Supply voltage                               | 12 / 24 V DC                 | 12 / 24 V DC                 |
| Permissible range                            | 10.8 to 28.8 V DC            | 10.8 to 28.8 V DC            |
| Analog inputs                                | 2                            | 2 x PT100 2- or 3-wire       |
| Measuring range                              |                              | -50 °C to +200 °C            |
| Input range                                  | 0 to 10 V or 0 to 20 mA      |                              |
| Resolution                                   | 10 bits scaled to 0 to 1000  | 0.25 °C                      |
| Cable length (shielded and twisted)          | 10 m                         | 10 m                         |
| Sensor supply                                | None                         | 1.1 mA                       |
| Power consumption for 12 V DC<br>for 24 V DC | 0.3 to 0.6 W<br>0.6 to 1.2 W | 0.3 to 0.6 W<br>0.6 to 1.2 W |
| Dimensions (W x H x D)                       | 36 (2 WM) x 90 x 53 mm       | 36 (2 WM) x 90 x 53 mm       |

<sup>2)</sup>: As SIPLUS component also for extended temperature range  
-40 °C to +70 °C and aggressive atmosphere/condensation ([www.siemens.com/siplus](http://www.siemens.com/siplus))

| Analog modules                      | LOGO! AM2 AQ <sup>2)</sup>     |
|-------------------------------------|--------------------------------|
| Supply voltage                      | 24 V DC                        |
| Permissible range                   | 20.4 to 28.8 V DC              |
| Analog outputs                      | 2                              |
| Output range                        | 0 to 10 V                      |
| Resolution                          | 10 bits normalized to 0 – 1000 |
| Cable length (shielded and twisted) | 10 m                           |
| Power consumption at 24 V DC        | 0.6 to 1.2 W                   |
| Dimensions (W x H x D)              | 36 (2 WM) x 90 x 53 mm         |

<sup>2)</sup>: As SIPLUS component also for extended temperature range  
-40 °C to +70 °C and aggressive atmosphere/condensation ([www.siemens.com/siplus](http://www.siemens.com/siplus))

| Analog modules         | EIB / KNX                              | CM AS-Interface (Slave) |
|------------------------|--|-------------------------|
| Supply voltage         | 24 V AC / DC                           | 24 V DC                 |
| Permissible range      | 20.4 to 28.8 V DC<br>20.4 to 26.4 V AC | 19.2 to 28.8 V DC       |
| Digital inputs*        | 6 (also configurable<br>as monoflop)   | 4                       |
| Analog inputs*         | 8                                      | –                       |
| Analog outputs*        | 2                                      | –                       |
| Digital outputs*       | 12                                     | 4                       |
| Dimensions (W x H x D) | 2 WM 36 x 90 x 53 mm                   | 2 WM 36 x 90 x 53 mm    |

\* Illustration LOGO! inputs/outputs

# LOGO! ordering data

| LOGO! versions     | Order number        |
|--------------------|---------------------|
| LOGO! 24           | 6ED1 052-1CC00-0BA6 |
| LOGO! 24o          | 6ED1 052-2CC00-0BA6 |
| LOGO! 12/24RC      | 6ED1 052-1MD00-0BA6 |
| LOGO! 12/24RCo     | 6ED1 052-2MD00-0BA6 |
| LOGO! 24RC (AC/DC) | 6ED1 052-1HB00-0BA6 |
| LOGO! 24RC (AC/DC) | 6ED1 052-2HB00-0BA6 |
| LOGO! 230RC        | 6ED1 052-1FB00-0BA6 |
| LOGO! 230RCo       | 6ED1 052-2FB00-0BA6 |
| LOGO! TD           | 6ED1 055-4MH00-0BA0 |

| Expansion modules     | Order number        |
|-----------------------|---------------------|
| LOGO! DM8 24          | 6ED1 055-1CB00-0BA0 |
| LOGO! DM8 12/24R      | 6ED1 055-1MB00-0BA1 |
| LOGO! DM8 24R (AC/DC) | 6ED1 055-1HB00-0BA0 |
| LOGO! DM8 230R        | 6ED1 055-1FB00-0BA1 |
| LOGO! DM16 24         | 6ED1 055-1CB10-0BA0 |
| LOGO! DM16 24R        | 6ED1 055-1NB10-0BA0 |
| LOGO! DM16 230R       | 6ED1 055-1FB10-0BA0 |
| LOGO! AM2             | 6ED1 055-1MA00-0BA0 |
| LOGO! AM2 PT100       | 6ED1 055-1MD00-0BA0 |
| LOGO! AM2 AQ          | 6ED1 055-1MM00-0BA0 |

| Communications modules | Order number        |
|------------------------|---------------------|
| LOGO! AS-i             | 3RK1 400-0CE10-0AA2 |
| LOGO! EIB/KNX          | 6BK1 700-0BA00-0AA1 |

| Optional accessories              | Order number        |
|-----------------------------------|---------------------|
| LOGO! Manual German               | 6ED1 050-1AA00-0AE7 |
| LOGO! Manual English              | 6ED1 050-1AA00-0BE7 |
| LOGO! Memory card                 | 6ED1 056-1DA00-0BA0 |
| LOGO! Battery Card                | 6ED1 056-6XA00-0BA0 |
| LOGO! Combo Memory & Battery Card | 6ED1 056-7DA00-0BA0 |
| LOGO! Soft Comfort 6.0            | 6ED1 058-0BA02-0YAO |
| LOGO! Soft Comfort V 6.0 upgrade  | 6ED1 058-0CA02-0YE0 |
| LOGO! PC cable                    | 6ED1 057-1AA00-0BA0 |
| LOGO! USB PC cable                | 6ED1 057-1AA01-0BA0 |
| LOGO! Modem cable                 | 6ED1 057-1CA00-0BA0 |

R: Relay outputs, C: Clock/time switch, o: No display

The products listed here may be subject to the current European/German and/or US export regulations.

# LOGO! accessories



## LOGO! PC cable/USB PC cable

For easy transmission of LOGO! switching programs to and from the PC



## LOGO! Program module

For duplication of switching programs – and for protecting your existing



## LOGO! Manual

for starting with LOGO!

- Detailed operating information
- Description of all integrated functions
- Numerous practical sample applications



## LOGO! Power

Reliable power supply for LOGO! – for converting the 100/240 V AC line voltage into the relevant operating voltage

- Suitable for all LOGO! 12 V DC and 24 V DC units
- Various versions in each case for different output currents



## LOGO! Contact

Hum-free switching module

- For switching resistive loads up to 20 A
- For direct switching of motors up to 4 kW
- For high-performance loads in noise-sensitive environments



## LOGO! Prom

For duplicating program modules

- Copying modules
- Writing modules by means of LOGO! Soft Comfort

additional information: [www.siemens.com/siplus](http://www.siemens.com/siplus)



## Front panel racks

For installation in control cabinet doors

- Front IP65 (IP30 without panel)
- 4 WM or 8 WM (optionally with keys)

additional information: [www.siemens.com/siplus](http://www.siemens.com/siplus)



## LOGO! Upmitter

For use with critical power supplies.

Generates stable 24 V DC at the output with 8 to 59 V DC at the input

## You can find more information about LOGO! on the Internet – [www.siemens.com/logo](http://www.siemens.com/logo)

- Comprehensive product information
- Free demo software
- Software upgrades
- Preprogrammed applications
- News
- Customer magazine GO!
- and much more

Of course you can also purchase LOGO! software and hardware online. Furthermore, you can receive personal support if necessary under “Service and Support”. Further sample applications and configuration aids can be found at [www.siemens.com/microset](http://www.siemens.com/microset)

SIPLUS LOGO! on the Internet

[www.siemens.com/siplus](http://www.siemens.com/siplus)

There you will find tempered LOGO! modules with

- Extended temperature range
- Protection against aggressive atmosphere / condensation

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