WEG Automation Catalog

Motors

Automation

Energy

Transmission & Distribution

Programmable Logic Controllers (PLC) & Human Machine Interfaces (HMI)





Scan to Connect





Terminology Reference

Abbreviations / Symbols

A = Amps (amperes)
AI = Analog Input
AO = Analog Output

cd/m² = Candelas per square meter cm = Centimeter

DI = Digital Input
DO = Digital Output
ft = Feet
Hz = Hertz

= Current

le = Rated operational current

in = Inches = Kilogram kg lbs = Pounds = Meters m mA = Milliamperes = Maximum Max = Minimum Min = Minutes min. mm = Millimeters ms = Milliseconds = Seconds sec. U = Rated voltage ٧ = Volts

V/Hz = Volts per hertz Vin = Voltage in $\mu s = Microsecond$

 Ω = Ohm

Acronyms / Initialisms

DC = Direct Current HP = Horsepower GB = Gigabyte = Gigahertz GHz kΑ = Kiloampere ΚB = Kilobyte = Kilohertz kHz MB = Megabyte MHz = Megahertz I/O = Input/Output

CAN = Controller Area Network

DB = Database

DSP = Digital Signal Processor

EMC = Electromagnetic Compatibility

FBD = Function Block Diagram

HMI = Human Machine Interface

IoT = Internet of Things
IIoT = Industrial Internet of Things
IPS = In-Plane Switching
LCD = Liquid Crystal Display
LED = Light-Emitting Diode

MQTT = Message Queuing Telemetry Transport

NPN = Negative-Positive-Negative
OEM = Original Equipment Manufacturer
OPC = Open Platform Communications

PC = Personal Computer

PID = Proportional-Integral-Derivative
PLC = Programmable Logic Controller
SoftPLC = Programmable Logic Controller Soft

PNP = Positive-Negative-Positive
PWM = Pulse Width Modulation
RFI = Radio Frequency Interference
RTD = Resistance Temperature Detector

RTU = Remote Terminal Unit

SCR = Semiconductor Controlled Rectifier
TCP = Transmission Control Protocol

TFT = Thin Film Transistor
UA = Unified Architecture
USB = Universal Serial Bus
UL = Underwriters Laboratories



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Warranty Policy for Automation Products

WEG USA General Terms and Conditions available at www.weg.net apply to all orders.

Warranty Service

If a WEG product requires warranty service due to defective materials or workmanship, WEG will, at its option, either repair or replace the defective product. By "replace," WEG Automation Service Department will be shipping a replacement product. WEG is not responsible for any expenses incurred in installation, removal from service, transportation (freight) or consequential expenses.

Limited Warranty

WEG Electric Corp. is proud of all our product lines. WEG and its employees are committed to our customers and users to provide the best-designed and manufactured motors, drives and controls. WEG provides a limited warranty on our products against defects in materials and workmanship for a specific period from the date of purchase. If a product date code is within its stated warranty period (18 months, 36 months, etc.), no proof of purchase is required. Otherwise, a copy of the invoice is necessary to show the date of purchase. Purchases of WEG products from unauthorized dealers or distributors, even of otherwise "new" WEG products, voids warranty coverage. WEG's authorized distributors are shown under "Support" "Where to Buy" on our website at www.weg.net

Return Policy

WEG products that are purchased from our stocking warehouses must be returned within 90 days, freight to be paid by customer. Returned products must be unused, and in undamaged original packaging. If products are ordered incorrectly by the customer and need to be returned to stock, then a 20% re-stocking charge will be applied. If the returned products are deemed not to be in unused, undamaged condition, or in original packaging, then additional fees will be applied (up to and including full price of item). Returns on any modified products will not be allowed. Any products that are ordered as specials (with features that would not allow them to be stocked items) cannot be returned.

Credit and Replacements

For any possible warranty failure, WEG Automation's service department must be advised and it will be sending replacements, at WEG's discretion. Customer cannot purchase a new drive and claim the credit reimbursement; automation service needs to handle the replacements, free of cost to customer. Later failure analysis will be made and the warranty determination will be communicated to the customer. If it is determined that there is no warranty, the customer will need to pay for the replacement unit.

Proper Storage of Products

When automation products are not immediately installed, they should be stored in their normal upright position in a dry, even temperature location, free of dust, gases, and corrosive atmosphere. Drives stored for a period exceeding one year should have the reforming process done prior to the installation. For more info, please contact the automation service department.



Limitation of Warranty

THE FOREGOING WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES OF QUALITY AND PERFORMANCE, WRITTEN, ORAL OR IMPLIED, AND ALL OTHER WARRANTIES INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ARISING FROM COURSE OF DEALING OR USAGE OF TRADE ARE HEREBY DISCLAIMED BY WEG. THE FOREGOING OBLIGATION TO REPAIR OR REPLACE WEG PRODUCTS OR PARTS SHALL BE THE SOLE AND EXCLUSIVE REMEDY OF THE PURCHASER, ITS CUSTOMERS, OR USERS OF THE PRODUCTS OR PARTS.

Contact WEG Automation Service

Toll-Free: 1-877-934-3748 or email by automationtech@weg.net



PLC500 Series Programmable Logic Controller

PLC500 is a medium-sized programmable logic controller (PLC), compact in size, robust in performance, and modular in programming. It is a solution that utilizes WEG technology and the CODESYS® platform flexibility, allowing the development of flexible and efficient solutions. With high-performance hardware, it is possible to perform highly complex tasks, such as timing, counting, basic and advanced math operations, interlocking logic, PID control, and much more. All of this is achieved at high speed and with maximum operational accuracy.

Standard Features

- Two Gigabit Ethernet ports. These can have independent IP addresses or act as a pass-through. Protocols include EtherNet/IP, Modbus TCP-Client/Server, and EtherCAT-Client.
- One CAN Port supports CANopen-Master
- One RS485 connection for Modbus RTU Master/Slave
- MicroSD card slot for storage up to 128GB
- One USB host port
- One Mini USB device port for programming and monitoring via PC
- CODESYS solution development platform offers greater operational stability and smarter tools.
- Free programming software with fieldbus licenses included
- Access to extended libraries and tools via the CODESYS store
- Eight digital inputs and eight digital outputs are standard on the base unit
- Expansion modules in numerous I/O types and configurations mounted directly to the base unit without the need for a separate backplane
- Expandable with up to eight expansion modules
- Quick connect terminals for I/O, CAN, RS485 and power
- Dual core processor at 1 GHz
- 1 GB RAM
- DIN rail or panel mount





UL File No. 515413





PLC500 Series

Product Selection & Pricing

PLC500 Series Programmable Logic Controllers

Catalog Number	Description	Digital Inputs	Digital Outputs	Power Supply	Dimensions (in)	Weight (lbs)	List Price	Multiplier
PLC500	Base model	8 PNP @ 24 VDC	8 PNP @ 24 VDC	24 VDC	4.36W x 5.53H x 3.52D	1.19	\$1,492	Z15
PLC500ED	Edge device for use with WEGnology®	8 PNP @ 24 VDC	8 PNP @ 24 VDC	24 VDC	4.36W x 5.53H x 3.52D	1.19	\$1,855	Z15
PLC500MC	Motion controller up to 32 axis	8 PNP @ 24 VDC	8 PNP @ 24 VDC	24 VDC	4.36W x 5.53H x 3.52D	1.19	\$3,295	Z15

PLC500 Accessories

Catalog Number	Image	Description	List Price	Multiplier
14824116		Expansion module port cover		Z15
18650156		Plug-in connector – female – 2 positions – power plug – 5.08 mm		Z15
18650157		Plug-in connector – female – 5 positions – RS485 – 3.5 mm	\$27	Z15
18650328	12163	Plug-in connector – female – 5 positions – CAN – 5.08 mm		Z15
18650151		Plug-in connector – female – 10 positions (1-10) – 3.5 mm		Z15
18650152	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Plug-in connector – female – 10 positions (11-20) – 3.5 mm	\$53	Z15
18650153	# # # # # # # # # # # # # # # # # # #	Plug-in connector – female – 10 positions (21-30) – 3.5 mm	\$53	Z15
15074626	-	Cables shielding kit CCS-A MODx	\$53	Z15

PLC500 Expansion Modules

				INPUTS				OUTPUTS				
Catalog Number	Internal Current Consumption ¹ (mA)	Digital (PNP or NPN)	Analog (Voltage or Current)	Thermo- couples (J, K & T type)	RTD (Pt100 & Pt1000)	Load Cells	Digital (PNP @ 500 mA max)	Analog (0-10 VDC or 0-20 mA)	Analog (0-10 V)	Dimensions (in)	List Price	Multiplier
MOD1.00-24DI	0	24	-	-	-	-	-	-	-	0.98W x 4.56H x 3.52D	\$310	Z15
MOD1.10-24D0	0	-	-	-	-	-	24	-	-	0.98W x 4.56H x 3.52D	\$370	Z15
MOD1.20-16D08DI	0	8	-	-	-	-	16	-	-	0.98W x 4.56H x 3.52D	\$400	Z15
MOD1.30-8D016DI	0	16	-	-	-	-	8	-	-	0.98W x 4.56H x 3.52D	\$375	Z15
MOD2.00-7AI	40	-	7	-	-	-	-	-	-	0.98W x 4.56H x 3.52D	\$540	Z15
MOD3.00-8A0VI	150	-	-	-	-	-	-	4	4	0.98W x 4.56H x 3.52D	\$480	Z15
MOD4.00-7TH	0	-	-	7	-	-	-	-	-	0.98W x 4.56H x 3.52D	\$540	Z15
MOD5.00-4RTD	0	-	-	-	7	-	-	-	-	0.98W x 4.56H x 3.52D	\$410	Z15
MOD6.00-2SG	30	-	-	-	-	2	-	-	-	0.98W x 4.56H x 3.52D	\$540	Z15

¹⁾ The sum of internal current consumption of MOD modules is limited to 500 mA (PLC500) or 300 mA (RUW200/PLC200) and with a maximum number of eight modules per PLC or Remote I/O unit.

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PLC500 Series

Expansion Modules

The MOD expansion card family has been developed as a multi-product platform and can be used with the remote units, the PLC200, the PLC410, and the entire PLC500 family.

Future PLCs will also use the identical MOD cards.

Advantages

- Less diversity of required stock, at WEG and at the customer.
- Compact modular design, just one inch wide per card.
- Diverse models to meet countless types of applications.



Connecting Expansion Modules

Connecting the expansion modules is quick and straightforward:

- 1. Remove the module cover.
- 2. Add the expansion module by sliding it in until it is fully aligned with the back.
- 3. Attach the cover to the last module.

The user easily and quickly installs the expansion modules on the PLCs or the Remote Unit through the 'Plug & Play' concept. When the PLCs or Remote units are powered up, the electronic circuit identifies the number of connected expansions, their model, and the firmware version of each one. They also receive an address according to their position, allowing them to be accessed through the communication bus.

Accessory Limit

The PLCs and Remote Unit controllers support the connection of up to eight expansion modules. However, there is a limitation on the internal power supply that powers the expansion modules. For the PLC500 models, the total current limit is 500 mA, whereas for Remote Units and other PLC versions, the limit is 300 mA.

To calculate the total internal current consumption, refer to the expansion module table above, which provides the current consumption values for each module, and ensure that your configuration remains within the specified limits.

For more information on the maximum number of supported modules, refer to the User Manual for the respective product, available at www.weg.net.







Programmable Logic Controllers PLC500 Series

Technical Data

PLC500

Versions	·	PLC500	PLC500ED				
		24 VDC (V min: 20.4 VDC / V max: 28.8 VDC)					
Dower cumply		Power supply: minimum recommended capacity 3 A					
Power supply			accessories and without active communication networks). mounting plus expansion cards.				
Processor		Dual core @ 1 GHz + c	o-processor @ 200 MHz				
Scan cycle time	100 thousand instructions	Total time	e 1.19 ms				
ocum oyolo umo	Per instruction	0.01	0.012 µs				
	RAM		1 GB				
	Flash	4	GB				
	Data	8 MB	64 MB				
Memory	Code	16 MB	16 MB				
Retentive Persistent		64 KB	64 KB				
		16 KB	16 KB				
Maximum instruction cap	pacity	Approximately 6 milli	on simple instructions				
Axis control	•	N/A	N/A				
		8 DI x PNP					
			- 150 kHz per channel				
Digital inputs (DI)			voltage of 28.8 V				
		·	/in ≥ 10 VDC				
		Low level: Vin ≤ 5 VDC					
		Consumption @ 24 VDC: 2.1 mA					
		Insulation voltage: 500 V					
		Maximum number of DIS via expansion boards: 200 points + remote units via Fieldbus					
		8 DO x PNP					
Digital outputs (DO)		Recommended voltage V+: 24 VDC					
			ge V+: 28.8 VDC				
			outs (D01, D02 and D03): 300 kHz				
		Maximum current of outputs D01 to D03: 100 mA/output					
		Maximum current of outputs D04dD08: 500 mA/output					
		•	ards: 200 points + remote units via Fieldbus				
	Carial CAN	CANopen (master)					
	Serial CAN	Maximum number of slaves:127					
	Serial RS485	Modbus RTU (master/slave) Maximum number of slaves: 247					
Communication ports	Ethernet		master/slave) – Ethernet/IP (adapter) – EtherCAT (client) ve different IP addresses				
	Mini USB device	Program transfer and monitorin	g by emulating an Ethernet port				
	USB host	USB 2.0 (use w	ith a flash drive)				
	MicroSD card	Maximum 128 GB (optional accessory: 8 GB card code: 16352814)					
Maximum number of exp	ansion cards	3	1				
Software		CODESYS® (V 3.5 SP18 or later – free of charge)					
Cloud solutions		WEG Smart Machine – WEGnology®					
Programming language		LD (ladder) – ST (structured text) – IL (instruction list) – SFC (sequential function chart) – FBD (function block diagram)					
Operating temperature	ng temperature 0°C to 45°C (32°F to 113°F)						
Storage temperature		-25°C to 60°C (-13°F to 140°F)					
Protection rating		IP	20				
Pollution degree		2 (according to EN 50178 and UL 5	08C), with non-conductive pollution				
Altitude			1,000 m (3,300 ft) Above 1,000 m to 4,000 m (3,300 ft to 13,200 ft), the output current must be derated by 1% for every 100 m (328 ft)				
Mounting		On DIN rail or on	panel with screws				
Certifications		UL, CE	, UKCA				
Dimensions (H x W x D)		129.8 mm x 101.6 mm x 106	.9 mm (5.11 in x 4 in x 4.2 in)				
Weight		129.8 mm x 101.6 mm x 106.9 mm (5.11 in x 4 in x 4.2 in) 0.540 kg (1.19 lbs)					

Notes:

1) The sum of internal current consumption of MOD modules is limited to 500 mA (PLC500) or 300 mA (RUW200/PLC200) and with a maximum number of eight modules per PLC or Remote I/O unit.

Programmable Logic Controllers



PLC500 Series

Technical Data

Expansion Module

		T				
	Туре	Bidirectional (PNP or NPN)				
	Maximum voltage input	+28.8 VDC				
Digital input	Voltage level detection	High level: Vin ≥ 10 V / Low level: Vin ≤ 3 V				
	Consumption	24 VDC: 10 mA				
	Isolation voltage	500 V				
	Туре	Voltage or Current input				
	Voltage range	0-10 VDC differential				
Analog input	Voltage limits in common mode	-10 -10 VDC				
	Current range	0-20 mA				
Resolution		24 bits				
	Туре	PNP				
District autout	Recommended voltage supply	+24 VDC				
Digital output	Maximum voltage	+28 VDC				
	Maximum current per output	500 mA				
	Maximum current	20 mA				
Analog output	Maximum load	500 Ω				
	Resolution	16 bits				
Thermocouple input	Туре	J, K, and T				
RTD input	Туре	Pt100 and Pt1000, 2 or 3 wires 1				
Load cell input	Туре	4 or 6 wires				
Operating temperature		0°C to 45°C (32°F to 113°F)				
Relative humidity	elative humidity Air: 5-90% w					
Protection degree		NEMA1 / IP20				
Pollution grade		2 (according to EN 50178 and UL 508C), with non-conductive pollution				
Altitude		Up to 1,000 m (3,300 ft) (maximum attitude under normal conditions) 1,000 m to 4,000 m (3,300 ft to 13,200 ft): current derating of 1% for each 100 m (330 ft) above 1,000 m (3,300 ft) of altitude				

Notes

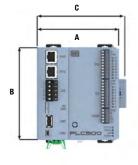
1) A 3-wire RTD is required for wire resistance compensation.

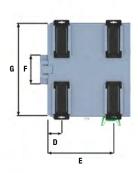
PLC500 Series



Dimensions

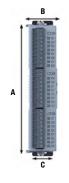
PLC500

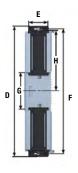




Reference	Dimension (mm)	Dimension (in)	Mounting
Α	101.7	4	
В	115	4.53	
С	110.7		
D	20.6	0.81	DIN rail or screw
E	84.7	3.33	2 x M3
F	35.8	1.41	Ø3.1 mm (0.122 in)
G	115	4.53	
Н	101.7	4	
I	89.5	3.52	

Expansion Module







Reference	Dimension (mm)	Dimension (in)	Mounting
Α	115.7	4.56	
В	25	0.98	
С	19	0.74	
D	123.1	4.84	
E	19	0.74	DIN rail or screw 2 x M3
F	117.1	4.61	Ø3.1 mm (0.122 in)
G	35.5	1.4	
Н	57.9	2.28	
I	89.4	3.52	
J	31.6	1.25	



CLIC02 Series Programmable Relay

Designed for small to medium-sized applications, the CLIC02 replaces auxiliary contactors, timers, and counters, saving space and simplifying maintenance. In its 3rd generation, the CLIC02 has PID control, advanced math functions, expanded programming capacity, more I/Os and timers, and the ability to act as a Modbus network master.

Standard Features

- 12 VDC, 24 VDC, or 110-220 VAC (50/60 Hz) voltage supply
- Basic units available with 10, 12, and 20 digital input and output points and two or four analog input points (0-10 VDC/12 bits)
- Digital (relay or transistor), analog, or Pt100 input and output expansion modules
- Digital relay (8 A for resistive loads) or transistor (1 A for resistive loads) outputs
- Maximum configuration of up to 44 digital input and output points, four Pt100 points, four analog inputs, and four analog outputs
- Real-time clock
- Two 1 kHz fast inputs
- Two PWM outputs and pulse train 1 kHz
- 4-line x 16-character LCD display
- CLIC02 Edit V3 free programming software
- Programmable in ladder or function block diagram (FBD)
- Capacity of 300 ladder programming lines or 260 function logic blocks
- PID control and arithmetic functions
- Menus in English and six more languages



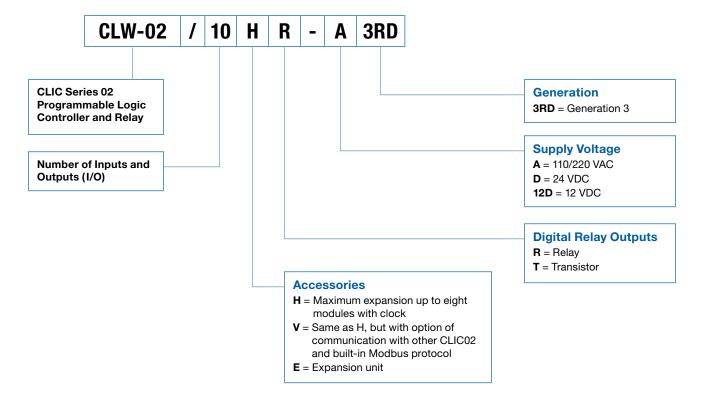


UL File No. 535719

CLIC02 Series



CLIC02 Catalog Number Sequence



High-speed counter up to 1 kHz (two channels, In 24 VDC (D) models only. PWM (pulse train) output 1 kHz on transistor output models only. Chart intended as reference only and not to create part numbers.

Programmable Relays



CLIC02 Series

Product Selection & Pricing

CLIC02 Programmable Relays

Catalog Number	Description	Digital Inputs	Digital Outputs	Analog Inputs	Power Supply	Communi- cation	Dimensions (in)	Weight (lbs)	List Price	Multiplier
CLW-02/12HR-D	CLIC02 12 I/Os Relay Output 24 VDC	6 (8)1	4 (Relay)	2 ¹	24 VDC	-	2.8W x 3.5H x 2.4D	0.50	\$320	Z8
CLW-02/12HT-D	CLIC02 12 I/Os Transistor Output 24 VDC	6 (8)1	4 (Transistor)	2 ¹	24 VDC	-	2.8W x 3.5H x 2.4D	0.50	\$360	Z8
CLW-02/20HR-D	CLIC02 20 I/Os Relay Output 24 VDC	8 (12) ¹	8 (Relay)	4 ¹	24 VDC	-	4.9W x 3.5H x 2.4D	0.76	\$450	Z8
CLW-02/20HT-D	CLICO2 20 I/Os Transistor Output 24 VDC	8 (12)1	8 (Transistor)	41	24 VDC	-	4.9W x 3.5H x 2.4D	0.76	\$510	Z8
CLW-02/20VR-D	CLIC02 20 I/Os Relay Output Modbus 24 VDC	8 (12)1	8 (Relay)	41	24 VDC	Modbus RTU	4.9W x 3.5H x 2.4D	0.76	\$540	Z8
CLW-02/20VT-D	CLICO2 20 I/Os Transistor Output Modbus 24 VDC	8 (12)1	8 (Transistor)	41	24 VDC	Modbus RTU	4.9W x 3.5H x 2.4D	0.76	\$580	Z8
CLW-02/20HR-12D	CLIC02 20 I/Os Relay Output 12 VDC	8 (12) ¹	8 (Relay)	4 ¹	12 VDC	-	4.9W x 3.5H x 2.4D	0.76	\$510	Z8
CLW-02/10HR-A	CLIC02 10 I/Os Relay Output 110/220 VAC	6	4 (Relay)	-	100-240 VAC	-	2.8W x 3.54H x 2.4D	0.42	\$350	Z8
CLW-02/20HR-A	CLIC02 20 I/Os Relay Output 110/220 VAC	12	8 (Relay)	-	100-240 VAC	-	4.9W x 3.5H x 2.4D	0.76	\$510	Z8

CLIC02 Expansion Modules

Ontolon Nombou	Cotalog Number Description		Inp	uts	Outputs		Dimensions	List Price	Maddialian	
Catalog Number	Description	Supply	Digital	Analog	Relay	Transistor	Analog	(in)	LIST Price	Multiplier
CLW-02/8ER-A	Expansion with 4 digital inputs 110/220 VAC and 4 relay outputs	100-240 VAC	4	-	4	-	-		\$260	Z8
CLW-02/8ER-D	Expansion with 4 digital inputs 24 VDC and 4 relay outputs	24 VDC	4	-	4	-	-		\$215	Z8
CLW-02/8ET-D	Expansion with 4 digital inputs 24 VDC and 4 transistor outputs	24 VDC	4	-	-	4	-		\$235	Z8
CLW-02/4AI 3RD	Expansion with 4 analog inputs 0-10 VDC / 0 20 mA – 12 bits	24 VDC	-	4	-	-	-	1.5W x 3.5H x 2.3D	\$515	Z8
CLW-02/4PT 3RD	Expansion with 4 Pt100 inputs – 12 bits	24 VDC	-	4	-	-	-		\$495	Z8
CLW-02/2A0 3RD	Expansion with 2 analog outputs 0-10 VDC / 0-20 mA – 12 bits	24 VDC	-	-	-	-	2		\$425	Z8
MBUS 3RD	Communication module, RS485, Modbus-RTU slave	24 VDC	Communication Module, RS485, Modbus RTU Slave				\$720	Z8		

CLIC02 Accessories

Catalog Number	Image	Description	List Price	Multiplier
CLW-02/ULINK		Programming Cable CLW-02/ULINK	\$120	Z8
CLW-02/PM05		Memory Module 32 KB for CLIC 02 3RD	\$34	Z8

Notes:

1) Analog inputs can be configured as digital inputs. The maximum number of digital inputs, including converted analog channels, is shown in parentheses.

CLIC02 Series



Technical Data

Power Supply			
	Models	Voltage	
	24 VDC	20.4-28.8 VDC	
Input voltage range	12 VDC	10.4-14.4 VDC	
	VAC Supply	100-240 VAC	
	24 VAC	20.4-28.8 VAC	
	Models	Current Consumption	
	24 VDC – 12 points	125 mA	
	24 VDC – 20 points	185 mA	
Power consumption	12 VDC – 12 points	195 mA	
	12 VDC – 20 points	265 mA	
	VAC Supply	100 mA	
	24 VAC	290 mA	
Installation cable (all terminals)	26 to 14 AWG - 0,13 to	2,1mm ² of section	
Programming			
Programming languages	Ladder / FBD		
Program maximum size	300 Lines or 260 Funct	ion Blocks	
Program storage	Flash Memory		
Processing speed	10 ms / cycle		
LCD display size	4 lines x 16 characters		
Timers Maximum amount of instructions Adjustable time range	Ladder: 31; FBD: 250		
Augustable and range	0.01 000. to 0000 11111.		
Counters			
Maximum amount of instructions	Ladder: 31; FBD: 250		
Maximum amount of counting	999999		
Resolution	1 unit		
RTC (Real Time Clock)			
Maximum amount of instructions	Ladder: 31; FBD: 250		
Resolution	1 min.		
Available time measurement	Week, year, month, day,	hour, min.	
Available comparisons	Analog Input, Timer, Counter, Temperature Input (AT), Analog Output (AQ), AS, MD, PI, MX, AR, DR and Constant Values		
Analog Comparison			
Maximum amount of instructions	Ladder: 31; FBD: 250		
Available comparisons	Analog Input, Timer, Counter, Temperature Input (AT), Analog Output (AQ), AS, MD, PI, MX, AR, DR and Constant Values		

Environmental			
Enclosure type	IP20		
Maximum vibration	1 G according to IEC60068-2-6		
Temperature in operation	-20°C to 55°C (-4°F to 131°F)		
Storage temperature	-40°C to 70°C (-40°F to 158°F)		
Maximum humidity	90% (Relative, non-condensing)		
Vibration	0.075 mm amplitude, 1.0 g accel.		
	8 points: 190 g		
Weight	10, 12- points: 230 g (type C: 160 g)		
	20- points: 345 g (type C: 250 g)		
Certifications	CUL, CE, UL		
Relay Outputs			
Contact material	Silver alloy		
Current duty	8 A		
HP system – can directly drive	120 VAC: 1/3 HP		
motors in this power	250 VAC: 1/2 HP 120 VAC: 1/2 HP		
	Resistive: 8 A / point		
Maximum load	Inductive: 4 A / point		
Response time	15 ms (normal condition)		
Useful life expectancy	100,000 operations with rated load		
Minimum load	16.7 mA		
Transistor Outputs			
Maximum frequency of PWM output	1 KHz (0.5 ms ON, 0.5 ms OFF)		
Maximum frequency of standard output	100 Hz		
Voltage specifications	10-28.8 VDC		
Current capacity	1 A		
Manimum land	Resistive: 0.5 A / point		
Maximum load	Inductive: 0.3 A / point		
Minimum load	0.2 mA		

Programmable Relays

Weg

CLIC02 Series

Technical Data

Discrete Inputs			
	Supply	Current	
	24 VDC	3.2 mA	
Power consumption	12 VDC	4.0 mA	
	100-240 VAC	1.3 mA	
	24 VAC	3.3 mA	
	Supply	Voltage Level	
	24 VDC	< 5 VDC	
Voltage signal in input for status "OFF"	12 VDC	< 2.5 VDC	
otatao orr	100-240 VAC	< 40 VAC	
	24 VAC	< 6 VAC	
	Supply	Voltage Level	
Voltage signal in input for status "ON"	24 VDC	> 15 VDC	
	12 VDC	> 7.5 VDC	
otatao on	100-240 VAC	> 79 VAC	
	24 VAC	> 14 VAC	
	Input Voltage	Response Time	
	24 VDC / 12 VDC	5 ms	
Response time for $OFF > ON$	220 VAC	22/18 ms – 50/60 Hz	
	110 VAC	50/45 ms - 50/60 Hz	
	24 VAC	90/90 ms – 50/60 Hz	
	Input Voltage	Response Time	
	24 VDC / 12 VDC	3 ms	
Response time for $\mbox{ON} > \mbox{OFF}$	220 VAC	90/85 ms – 50/60 Hz	
	110 VAC	50/45 ms – 50/60 Hz	
	24 VAC	90/90 ms – 50/60 Hz	
Compatibility with transistor devices	NPN, only 3-wire devices		
High speed input frequency	1 KHz		
Standard input frequency	< 40 Hz		
Required protection	Inverted voltage protec	tion	

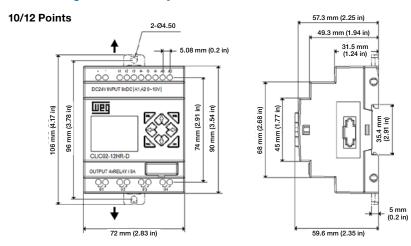
Analog Inputs					
Resolution	Basic unit	12 bits			
Resolution	Expansion unit	12 bits			
Acceptable voltage range	Basic unit	0-10 VDC or 24 VDC (when used as digital input)			
	Expansion unit	0-10 VDC or 0-20 mA			
Input voltage signal for status "OFF"	< 5 VDC (when used as discrete input 24 VDC)				
Input voltage signal for "ON" status	< 9.8 VDC (when used as discrete input 24 VDC)				
Insulation	None				
Protection against short circuit	Yes				
Available amount	Basic Unit	A01-A04			
Available amount	Expansion Unit	A05-A08			

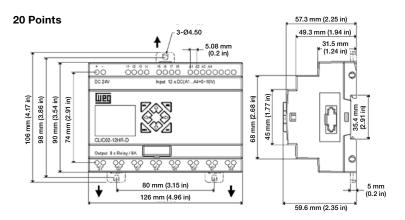
CLIC02 Series



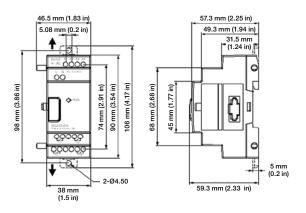
Dimensions (mm)

CLIC02 Programmable Relays





Expansion Modules





cMTX Series Human Machine Interface

WEG's cMTx Series HMI (Human Machine Interface) operation interfaces are designed to meet the most diverse automation processes and at different scales of complexity. Available in 7-inch, 10.1-inch, and 15.6-inch versions, its objective is to make the automation of complex production processes more flexible and objective, facilitating seamless integration between humans and machines.

Standard Features

- Available sizes: 7-inch, 10.1-inch, and 15.6-inch
- Capacitive screen for 15.6-inch models
- Built-in PLC activation through CODESYS® activation card
- Remote access to HMI through EasyAccess 2.0 activation card
- MQTT protocol
- Multi-gesture screen
- 4 GB RAM memory
- 1 GB Flash memory
- Wi-Fi connection module support
- Modbus RTU and TCP, CANopen, OPC UA, and SAE 1939.
- Free programming software
 - User-friendly design interface
 - Extensive graphics library
 - Multilingual interface





UL File No. 535719



cMTX Series



Product Selection & Pricing

cMTX Series Human Machine Interface

Catalog Number	Description	Display Size (in)	Resolution (pixels)	Display Type	Power Supply	Dimensions (in)	Weight (lbs)	List Price	Multiplier
cMT2078x	7-inch Basic HMI	7	800 x 480	TFT Resistive	24 VDC	7.88W x 5.76H x 1.37D	1.32	Contact WEG for Pricing	Z15
cMT3102x	10-inch Advanced HMI	10.1	1024 x 600	TFT Resistive	24 VDC	10.67W x 8.38H x 1.49D	2.64	Contact WEG for Pricing	Z15
cMT3152x	15-inch Advanced HMI	15.6	1920 x 1080	VA Capacitive	24 VDC	15.7W x 10.3H x 1.08D	3.52	Contact WEG for Pricing	Z15

cMTX Accessories

Catalog Number	Image	Description	List Price	Multiplier
13753693	1	Easy Access 2.0 Activation Card – Software	Contact WEG for Pricing	Z15
16554149	Marketter Comments of the Comm	CODESYS® Activation – Software	Contact WEG for Pricing	Z15
16280732		Expansion Module Wi-Fi M02 – UL	Contact WEG for Pricing	Z15

Human Machine Interfaces

Weg

cMTX Series

Technical Data

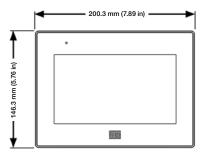
Model	cMT2078X	cMT3102X	cMT3162X		
Туре	Standard	Advan	ced		
Screen size	7 in (diagonal)	10.1 in (diagonal)	15.6 in (diagonal)		
Display resolution	800 x 480 pixels	1,024 x 600 pixels	1,920 x 1,080 pixels		
Brightness	400 cd/m²	350 cd/m²	300 cd/m ²		
LCD type	TFT LCI	D color	IPS color		
Contrast Ratio		800:1			
Back-light type		LED			
Screen life	> 30,000 hours	> 50,000 hours	> 30,000 hours		
Number of display colors	16.7 n	nillion	16.2 million		
Touchscreen type	Resis	stive	Capacitive		
Flash memory		4 GB			
RAM memory		1 GB			
СРИ	Quad-core 64-bit RISC 1.5 GHz	Quad-core 32-bit RISC 1.6 GHz	Quad-core 64-bit RISC 2 GHz		
COM1	Con. B: RS23	Con. A: RS485 (2/4 wires) Con. B: RS232 (4 wires)			
СОМ2	Con. A: RS485 (2	wires / 4 wires)	Con. A: RS485 (2 wires)		
сомз	Con. A: RS485 (2 wires) /	Con. B: RS232 (2 wires)	N/A		
Ethernet	10/100 Base-T x 2	10/100/1000 Base-T x	1/10/100 Base-T x 1		
Wi-Fi connection	No	Yes (via M02 accessory)	No		
RTC (real time clock)		Yes			
Power supply		24 VDC ± 20%			
Consumption	820 mA @ 24 VDC	1 A @ 24 VDC	1.3 A @ 24 VDC		
Vibration resistance		10-25 Hz (X, Y, Z dir. 30 min.)			
Ambient temperature		0°C to 50°C			
Storage temperature		-20°C to 60°C			
Relative humidity		10-90% (non-condensing)			
External dimensions (W x H x D)	200.3 x 146.3 x 35 mm (7.89 x 5.76 x 1.38 in)	271 x 213 x 38 mm (10.67 x 8.39 x 1.50 in)	400 x 263 x 27.6 mm (15.75 x 10.35 x 1.09 in)		
Installation cutout (W x H)	192 x 138 mm (7.56 x 5.43 in)	260 x 202 mm (10.24 x 7.95 in)	384 x 247 mm (15.12 x 9.72 in)		
Weight	0.6 kg (1.3 lbs)	1.2 kg (2.65 lbs)	1.6 kg (3.53 lbs)		
Protection rating (rear/front)		NEMA4 / IP66			
Certifications		UL, CE			
Editor software	EasyBuilder Pro (free)				
Remote access	EasyAccess 2.0 (optional)				
PLC function	CODESYS® (optional)				

cMTX Series



Dimensions

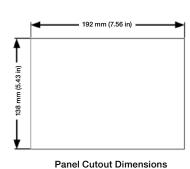
cMT2078x - 7 inch



27.6 mm (1.09 in)

Side View

7.4 mm (0.29 in)



Front View

189.6 mm (7.46 in) • 135.6 mm (5.34 in)

Rear View

DIP switch В Battery C Power supply Con. A: D COM2 RS485 2 wires / 4 wires, COM3 RS485 2 wires

COM1 RS232 4 wires, COM3 RS232 2 wires

USB Host LAN 2

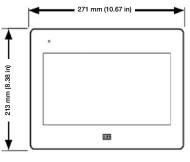
F

Н LAN 1

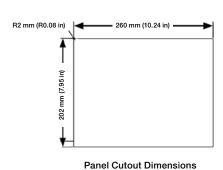
Bottom View

- 6.5 mm (0.26 in)

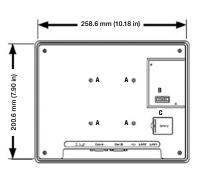
cMT3102x - 10 inch







Front View



38 mm (1.50 in) # @ **(111 Bottom View**

Α	VESA 75 standard holes (M4)
В	Wi-Fi module connection
C	Battery
D	Power supply
E	Con. A: COM2 RS485 2 wires / 4 wires, COM3 RS485 2 wires, CAN Bus
F	Con. B: COM1 RS232 4 wires, COM3 RS232 2 wires
G	USB Host
Н	LAN 2
I	LAN 1

Rear View

WEG Automation - Products and Solutions | 21

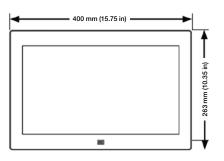
PROGRAMMABLE RELAYS

Human Machine Interfaces

cMTX Series

Dimensions

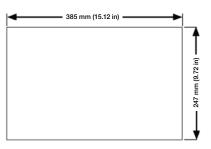
cMT3152x - 15.6 inch



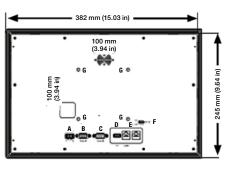
Front View



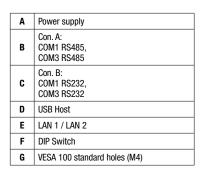
Side View



Panel Cutout Dimensions



Rear View



Weg	Notes

WEG Industrial Automation

www.weg.net wec-automationsales@weg.net



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