

M91 Micro-OPLC™



M91 Series Featuring:

HMI

- Up to 80 user-designed screens
- Multilingual: supports over 15 languages and 20 graphic symbols
- Scroll between pre-programmed recipes/menus
- Info Mode—troubleshoot via the HMI panel

PLC

- Shaft-encoder inputs and PWM outputs
- Direct temperature inputs
- Auto-tune PID, up to 4 loops
- Time-based control in 3 clicks
- Database
- Print utilities
- Full source upload

M91

Palm-size PLC + textual HMI and up to 38 onboard I/Os (expandable up to 150)

Article Number	M91-2-R1	M91-2-R2C	M91-2-R6C	M91-2-R24	M91-2-T1	M91-2-T38	M91-2-T42	M91-2-U2	M91-2-U42
	10 Digital 1 Analog Inputs 6 Relay Outputs	10 Digital 2 Analog Inputs 6 Relay Outputs	6 Digital 6 Analog Inputs 6 Relay Outputs	20 Digital 20 Analog Inputs 12 Relay Outputs	12 Digital 12 Transistor Outputs	10 Digital 12 Transistor Outputs	10 Digital 20 Analog Inputs 12 Relay Outputs	10 Digital 20 Analog Inputs 12 Transistor Outputs	8 Digital 2 PT100/TC 10 Transistor 2 Analog Outputs
Inputs									
Digital input/analog I/O Shaft-Encoder/ ² Max. Freq. Measurer ²	10	10	3 10kHz 16-bit	3 10kHz 16-bit	2 10kHz 16-bit	3 30kHz ³ 16-bit	2 10kHz 16-bit	1 30kHz ³ 16-bit	1 30kHz ³ 16-bit
Analog			1 10bit 0-10V 0-20mA 4-20mA	1 10bit 0-10V 0-20mA 4-20mA	2 10bit 0-10V 0-20mA 4-20mA	2 10bit 0-10V 0-20mA 4-20mA	2 14bit 0-10V 0-20mA 4-20mA	2 14bit 0-10V 0-20mA 4-20mA	2 14bit 0-10V 0-20mA 4-20mA
Temperature Measurement									
Outputs									
Digital	6 relay	6 relay	6 relay	12 relay	12 relay	16 ppm	12 ppm	12 ppm	10 ppm
High-Speed Outputs/ PWM									
Analog									
I/O Expansion									

Program

Application Memory
Memory Operands
Database

1024 integers, (indirect access)

Operator Panel

Type

STN LCD

15 lines

Display Size

2 lines x 16 characters

Keyboard

Keys

General

Power Supply

12/24VDC

24VDC

24VDC

24VDC

24VDC

24VDC

24VDC

24VDC

24VDC

24VDC

Battery

Environment

Clock (RTC)

7 years typical at 77°F, battery back-up for all memory sections and RTC

NEAR/XP/PS (when panel mounted)

Realtime clock functions (date and time)

... Use the perfect PLC for small applications—and skip panel wiring ...

C €/UL

1 In these models certain inputs are adaptable, and can function as either digital, analog, and in certain models also as thermocouple or PT100. Using adaptable inputs reduces the amount of free digital inputs. For example, M91-2-U2 offers 12 digital inputs. Implementing 2 TC inputs requires 4 digital inputs, leaving 8 free.

2 Certain inputs can function as high-speed counters, shaft-encoder or normal digital inputs.

3 This specification depends on cable length.

4 Certain outputs can function as high-speed or PWM outputs.

* Additional models (M90 models) are listed on the Unictronics website.

¹ In these models certain inputs are adaptable, and can function as either digital, analog, and in certain models also as thermocouple or PT100. Using adaptable inputs reduces the amount of free digital inputs. For example, M91-2-U2 offers 12 digital inputs. Implementing 2 TC inputs requires 4 digital inputs, leaving 8 free.

² Certain inputs can function as high-speed counters, shaft-encoder or normal digital inputs.

³ This specification depends on cable length.

⁴ Certain outputs can function as high-speed or PWM outputs.

* Additional models (M90 models) are listed on the Unictronics website.