

## M91 PLC & HMI IN ONE UNIT IP65

M91 Palm size PLC and textual HMI with up to 38 onboard I/O's - **Expandable up to 150**

**Free Visilogic Ladder Software  
Including Programming Cable**

Training courses available  
for all Unitronics PLC's

### M91 Features



- HMI:**
- Up to 80 user-designed screens
  - Multilingual: supports over 15 languages & 20 graphic symbols
  - Scroll between pre-programmed recipes/menus
  - Troubleshoot via the HMI, no PC needed
- PLC:**
- Shaft-Encoder inputs and PWM outputs
  - Direct temperature inputs
  - Database
  - Auto-tune PID, up to 4 loops
- Communication:**
- SMS messaging via GSM
  - PC access via MODBUS or OPC server. MODBUS networking
  - CANbus (on C Models)
  - RS232/RS485 built in port

Code	M91-2-R1	M91-2-R2C	M91-2-R6C	M91-2-R34	M91-2-T1	M91-2-T38	M91-2-T2C	M91-2-UA2	M91-2-RA22
Digital PNP/NPN	10	10	6	22	12	22	12	12	12
HSC/Shaft	3.	3.	1.	3.	2.	2.	3.	1.	1.
Encoder/max, Freq. Measurer	10kHz	10kHz	10kHz	30kHz	10kHz	30kHz	10kHz	30kHz	30kHz
Analog	16-bit	16-bit	16-bit	16-bit	16-bit	16-bit	16-bit	16-bit	16-bit
Inputs	1. 10-bit 0-10V, 0-20mA, 4-20mA	2. 10-bit 0-10V, 0-20mA, 4-20mA	6. 10-bit 2. 0-10V, 0-20mA, 4-20mA and 4. 0-20mA, 4-20mA	2. 10-bit 0-10V, 0-20mA, 4-20mA			2. 10-bit 0-10V, 0-20mA, 4-20mA	2. 14-bit 0-10V, 0-20mA, 4-20mA	2. 14-bit 0-10V, 0-20mA, 4-20mA
									and as 2
Temperature Measurement								2 TC	PT100/TC
Digital	6 Relay			12 Relay	12 PNP	16 PNP	12 PNP	10 PNP	8 Relay
High-Speed/PWM					2, first 2 outputs can function as HSO.		0.5kHz max		
Analogue								2 12-bit, 0-10V, 4-20mA	
Power Supply	12/24VDC		24VDC		12/24VDC	24VDC	12/24VDC	24VDC	12/24VDC

## JAZZ<sup>®</sup> MICRO OPLC™ IP65

New Jazz 2 Series. Much more than a "smart relay"  
Full function PLC & HMI with up to 40 onboard I/O's -  
**Non Expandable**

**Free U90 Ladder Software**

### Jazz Features



Jazz-J Flat Panel



Jazz Classic Panel

- HMI:**
- Up to 60 user-designed screen
  - Multilingual: supports over 15 languages & 20 graphic symbols
  - Scroll between pre-programmed recipes/menus
- PLC:**
- Ladder Logic Programming
  - Functions include: interrupt, loops, maths, store & compare functions
  - High-speed counters & PWM outputs
  - Direct temperature inputs
  - Auto-tune PID, up to 4 loops
- Communication:**
- SMS messaging via GSM
  - PC access via MODBUS or OPC server. MODBUS networking

### Accessories

#### Ethernet Comm. Port



#### MJ20-ET1

Ethernet add on port supported by Jazz 2 series only

#### COM Port Kit



#### JZ-RS4

RS232/RS485 Add-on port (isolated)

#### Program Cloner Module



#### MJ20-MEM1

Copy applications from PLC to PLC

#### USB Cable



#### USB - CAB200

USB Programming Cable

Classic Code	JZ20-R10	JZ20-R16	JZ20-R31	JZ20-T10	JZ20-T18	JZ10-11-T40	JZ10-11-UN20	JZ10-11-UA24	JZ10-11-PT15
Flat Code	JZ20-J-R10	JZ20-J-R16	JZ20-J-R31	JZ20-J-T10	JZ20-J-T18	JZ10-J-T40	JZ10-J-UN20	JZ10-J-UA24	JZ10-J-PT15
Digital PNP/NPN	6	8	18	6	8	18	11	11	6
High-S Counter	2. 10kHz, 16-bit						1. 5kHz, 16-bit		
Analog		2. 10 or 12-bit, 0-10V & 2. 10-bit, 0-20mA, 4-20mA			2. 10-bit, 0-10V & 2. 10-bit, 0-20mA, 4-20mA		2. 10-bit 0-20mA, 4-20mA	1. 10-bit 0-20mA, 4-20mA	3. 10-bit 0-10V
Temperature Measurement							1 PT100/TC	2 PT100/TC	3 PT1000/ NI1000
Digital	4 Relay	6 Relay	11 Relay	4 PNP	8 PNP	20 PNP	5 Relay, 2 PNP		5 Relay 1 PNP/NPN
High-Speed/PWM						2 PWM			1 HSO
Analogue								2. 12-bit 10V, 4-20mA	
Power Supply	24VDC								