

M91-2-R1

M91-2-xxx

HMI	
Display	STN LCD, 2 lines x 16 characters
Number of keys	15
Number of definable displays	80
Power supply	
Nominal voltage	12 ... 24 V DC
Operating voltage range	10.2 ... 28.8 V DC
Power consumption AC / DC	- / 6.24 W
Frequency range	Rated frequency
Inputs	
Number of digital inputs	10
Number of encoder inputs*	3, 16 Bit, 10 kHz
Number of analog inputs*	1, 10 Bit, 0-10 V, 0-20 mA, 4-20 mA
Nominal voltage digital inputs	12 V DC24 V DC
High level threshold digital inputs	8 V DC17 V DC
Outputs	
Number of relay outputs	6
Number of transistor outputs	6
Number of analog outputs	2
Rated voltage AC	230 V
Rated current	5 A
Memory	
Number of ladder code memory (virtual)	36 KB
Number of memory bits (coils)	256
Number of memory integers (registers)	256
Number of timers	64
Database size	1024 integers (indirect access)
Execution time	12 µs / Bit
Memory card	Micro SD-Card
Communication	
Connections	RS232 RS485 Ethernet optional
Protocol	Modbus, OPC
General data	
Storage temperature (no ice)	-20 ... 60 °C / -4 ... 140 °F
Operation temperature	0 ... 50 °C / 32 ... 122 °F
Back-up battery	CR2450N, 7 years typical at 25 °C, battery back-up for RTC and system data, including variable data
Dimensions	see fig. 1
Mounting	DIN rail, Panel with brackets
Ingress Protection	IP 20 / NEMA1 (DIN rail mounted), IP 65 / NEMA4X (Panel mounted)
Relative humidity, no condensation	10 ... 95 %

Product references

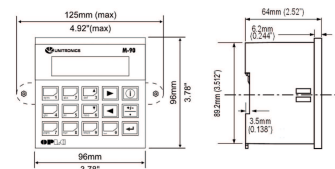
Description	Type	12-24
10 digital, 3 HSC/shaft encoder, 1 analog inputs 6 digital relay outputs	M91-2-R1	✓
Other devices on request. Please contact support@comatreleco.com .		
The U90 Ladder software is available free of charge on www.unitronicsplc.com at downloads.		

Accessories

I/O Expansion Modules	IO-AI4-AO2, IO-AI8, IO-AO6X, IO-ATC8, IO-D16A3-RO16, IO-DI16, IO-DI8ACH, IO-DI8-RO4, IO-PT400, IO-PT4K, IO-LC1, IO-LC3, IO-RO8, IO-RO16
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fig. 1. Dimensions (mm)



Technical approvals, conformities

Approvals   