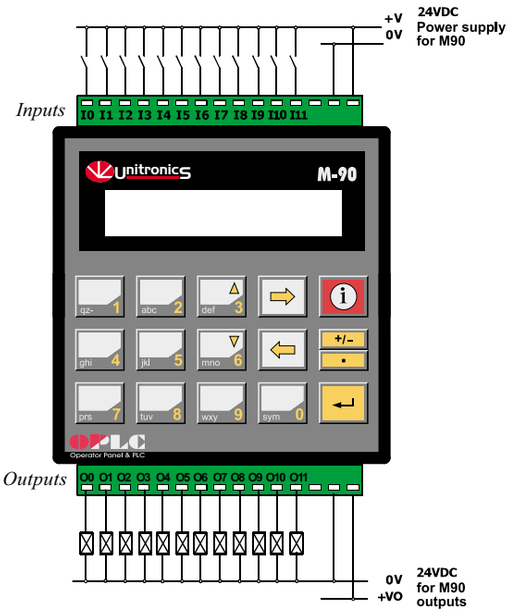
M90-T1

12 digital inputs, high-speed counter/shaft encoder input,
12 pnp outputs, I/O expansion port, RS232

Power supply	24VDC
Permissible range	20.4 to 28.8VDC
Maximum current consumption	90mA @ 24VDC
Typical power consumption	2W @ 24VDC
Digital inputs	12 pnp (source) inputs
Nominal input voltage	24 VDC
Input voltage	< 5 VDC for Logic '0' > 15 VDC for Logic '1'
Input current	3 mA @ 24 VDC
Input impedance	8.4kΩ
Response time '0' to '1' '1' to '0'	(except Input#10 and Input#11) 5 mS 10 mS
Galvanic isolation	None
Input cable length	Up to 100 meters, unshielded
High-speed counter	• Input#11 can be used as either a digital input, or as a counter • Input#10 can be used as either a digital input or as a counter reset • Inputs#10 and #11 can also be used as a shaft encoder
Resolution	16-bit
Input frequency	Input#10 and input#11 : 5kHz max.
Minimum pulse width	Input#10 and input#11 : 80µs
Digital outputs	12 pnp (source) outputs, 24 VDC
Output type	P-MOSFET (open drain)
Isolation	None
Output current	0.5A max. Total current: 3A max.
Max. frequency	1kHz (resistive load) 0.5Hz (inductive load)
Short circuit protection	Yes

Display	STN, LCD display
Illumination	LED yellow-green backlight
Display size	1 line, 16 characters long
Character size	5 x 7 matrix, 3.07 x 5.73mm
Keypad	Sealed membrane
Number of keys	15
PLC program	2048 words
Bits/Coils	256
Integers/Registers	256
Timers	64
Execution time	12µsec. for bit operations
HMI displays	80 user-designed displays
HMI variables	50 HMI variables are available to conditionally display and modify text, numbers, dates, times & timer values. The user can also create a list of up to 120 variable text displays, totaling up to 2K.
RS232 serial port	
Programming	Download user program
Network option	Via RS485/RS232 converter
I/O expansion port	Up to 64 additional I/Os, including: digital & analog I/Os, RTD and more.
Miscellaneous	
Clock (RTC)	Date and time-year 2000 compliant, with typical 7 year battery back-up
Weight	260g (9.1 oz.)
Temperature	Operational 0 to +50°C Storage -20 to +60°C
Mounting method	DIN-rail mounted (IP20) Panel mounted (IP65)



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