

IC200UEC008

**8 Point Expansion Unit, (4) 24VDC Inputs, (4) 24VDC Outputs with ESCP,
24VDC Power Supply**

VersaMax Micro PLC Expansion Unit IC200UEC008 accepts four 24VDC inputs and provides four 24VDC source-type transistor outputs with Electronic Short Circuit Protection. The module requires +24VDC nominal input power.

DC Inputs

The four 24 volt DC input circuits can have positive or negative logic characteristics. Inputs are compatible with a wide range of devices, such as pushbuttons, limit switches, and electronic proximity switches.

The built-in +24 VDC supply can be used for input devices and to power the DC input circuits. The combination of input circuit current and external device current must not exceed 200 mA.

Transistor Outputs

Expansion Unit IC200UEC008 has four sink-type high-current transistor outputs. All outputs are isolated between field and logic and are switching positive voltage.

All outputs have electronic short-circuit protection, no fuses are needed to protect the outputs.

An external source of 12/24VDC power must be provided to power the outputs. The outputs share this common incoming 24VDC supply and one common ground. The outputs are able to drive high inrush currents (8 times the rated current) and are protected against negative voltage pulses. This makes it possible to switch lamps and inductive loads.

Expansion Unit IC200UEC008 Specifications

Inputs	Four 24VDC input circuits
Outputs	Four 24VDC source-type transistor outputs with ESCP
+24 VDC Output Power Supply	200mA maximum(for input circuits and user devices)
DC Power Specifications	
Range	24 –20%/+25% VDC
Hold-up	3ms
Inrush Current	1 A maximum at 30 VDC
Inrush Time	10 ms for 1 Amp
Input Current	0.16 A typical at 24 VDC
Input Power Supply Rating	4W

DC Input Specifications

Rated Input Voltage	24 volts DC
Input Voltage Range	0 to 30 volts DC
Input Current	7.5mA typical
Input Resistance	2.8 Kohms
Input Threshold Voltage	ON: 15VDC minimum, OFF: 5VDC maximum
Input Threshold Current	ON: 4.5mA maximum, OFF: 1.5mA minimum
Response Time	OFF to ON or ON to OFF: 4ms typical
Isolation Voltage	1500V RMS field side to logic side, 500V RMS between groups

DC Output Specifications

Voltage Range	12/24VDC +10%/-15% (at VC)
Maximum Load Current	0.7A per point , 3A per common
Maximum Inrush Current	
Output Voltage Drop	0.3V
OFF state Leakage Current	0.1mA
Response Time	OFF to ON or ON to OFF: 0.05ms maximum at 24VDC 0.2A
Isolation Voltage	1500V RMS field side to logic side, 500VAC between field side and logic side
External power supply	12/24VDC -10%, +20%
Fuse	Not required
Minimum switching current	10mA

Wiring Diagram, IC200UEC008