



### Main

Commercial Status	Commercialised
Product or component type	Ethernet unmanaged switch

### Complementary

Range compatibility	Modicon M241 Modicon M251
Product compatibility	Modicon M251 logic controller Modicon M241 logic controller
Current consumption	360 mA at 5 V DC for communication bus
Integrated connection type	4 RJ45 Ethernet
Transmission rate	10/100 Mbit/s
Port Ethernet	10BASE-T/100BASE-TX - 4 port(s) copper cable
Web services	Web server
Communication service	FTP SNMP DHCP client Modbus TCP server Modbus TCP client IEC VAR ACCESS Modbus TCP slave device Ethernet/IP slave device NGVL Programming Downloading Updating firmware Monitoring
Maximum number of connections	16 Ethernet/IP device 8 Modbus server
Communication port protocol	SNMP TCP (Transmission Control Protocol) UDP (User Datagram Protocol) Ethernet IP/Modbus TCP
Redundancy	No
Local signalling	1 LED per channel green for Ethernet port activity 1 LED per channel green/yellow for Ethernet link 1 LED green for PWR
Electrical connection	Screw connector - terminal for connecting the functional ground RJ45 - 4 connectors for connecting Ethernet network
Marking	CE

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Surge withstand	0.5 kV (I/O) with differential mode protection conforming to EN/IEC 61000-4-5 1 kV (relay output) with differential mode protection conforming to EN/IEC 61000-4-5 1 kV (power lines (AC)) with differential mode protection conforming to EN/IEC 61000-4-5 0.5 kV (power lines (DC)) with differential mode protection conforming to EN/IEC 61000-4-5 1 kV (shielded cable) with common mode protection conforming to EN/IEC 61000-4-5 1 kV (I/O) with common mode protection conforming to EN/IEC 61000-4-5 2 kV (relay output) with common mode protection conforming to EN/IEC 61000-4-5 2 kV (power lines (AC)) with common mode protection conforming to EN/IEC 61000-4-5 1 kV (power lines (DC)) with common mode protection conforming to EN/IEC 61000-4-5
Mounting support	Plate or panel with fixing kit Top hat type TH35-7.5 rail conforming to IEC 60715 Top hat type TH35-15 rail conforming to IEC 60715
Width	0.98 in (25 mm)
Height	3.54 in (90 mm)
Depth	3.54 in (90 mm)
Product weight	0.28 lb(US) (0.125 kg)

## Environment

Standards	EN/IEC 61131-2 UL 508
Product certifications	C-Tick CULus
Resistance to electrostatic discharge	6 kV (on contact) conforming to Marine specification (LR, ABS, DNV, GL) 8 kV (in air) conforming to Marine specification (LR, ABS, DNV, GL) 4 kV (on contact) conforming to EN/IEC 61000-4-2 8 kV (in air) conforming to EN/IEC 61000-4-2
Resistance to electromagnetic fields	0.91 V/yd (1 V/m) (2...2.7 GHz) conforming to EN/IEC 61000-4-3 3 V/m (1.4 GHz...2 GHz) conforming to EN/IEC 61000-4-3 10 V/m (80 MHz...1 GHz) conforming to EN/IEC 61000-4-3
Resistance to fast transients	1 kV (serial link) conforming to EN/IEC 61000-4-4 1 kV (Ethernet line) conforming to EN/IEC 61000-4-4 1.5 kV (I/O) conforming to EN/IEC 61000-4-4 2 kV (relay output) conforming to EN/IEC 61000-4-4 2 kV (power lines) conforming to EN/IEC 61000-4-4
Resistance to conducted disturbances, induced by radio frequency fields	10 V (spot frequency (2, 3, 4, 6.2, 8.2, 12.6, 16.5, 18.8, 22, 25 MHz)) conforming to Marine specification (LR, ABS, DNV, GL) 3 V (0.1...80 MHz) conforming to Marine specification (LR, ABS, DNV, GL) 10 V (0.15...80 MHz) conforming to EN/IEC 61000-4-6
Electromagnetic emission	Radiated emissions - test level: 24 dB $\mu$ V/m QP at 156...165 MHz conforming to Marine specification (LR, ABS, DNV, GL) Radiated emissions - test level: 54 dB $\mu$ V/m QP at 100 MHz...2 GHz conforming to Marine specification (LR, ABS, DNV, GL) Radiated emissions - test level: 60...54 dB $\mu$ V/m QP at 30...100 MHz conforming to Marine specification (LR, ABS, DNV, GL) Radiated emissions - test level: 80...50 dB $\mu$ V/m QP at 150 kHz...30 MHz conforming to Marine specification (LR, ABS, DNV, GL) Radiated emissions - test level: 47 dB $\mu$ V/m QP class A at 230 MHz...1 GHz conforming to EN/IEC 55011 Radiated emissions - test level: 40 dB $\mu$ V/m QP class A at 30...230 MHz conforming to EN/IEC 55011 Conducted emissions - test level: 63 dB $\mu$ V/m QP ( power lines) at 1.5...30 MHz conforming to EN/IEC 55011 Conducted emissions - test level: 79...63 dB $\mu$ V/m QP ( power lines) at 150 kHz...1.5 MHz conforming to EN/IEC 55011 Conducted emissions - test level: 120...69 dB $\mu$ V/m QP ( power lines) at 10...150 kHz conforming to EN/IEC 55011 Conducted emissions - test level: 73 dB $\mu$ V/m QP/60 dB $\mu$ V/m AV ( power lines (AC)) at 0.5...300 MHz conforming to EN/IEC 55011 Conducted emissions - test level: 79 dB $\mu$ V/m QP/66 dB $\mu$ V/m AV ( power lines (AC)) at 0.15...0.5 MHz conforming to EN/IEC 55011
Ambient air temperature for operation	14...122 °F (-10...50 °C) vertical installation -10...55 °C horizontal installation
Ambient air temperature for storage	-13...158 °F (-25...70 °C)

Relative humidity	10...95 % without condensation in storage 10...95 % without condensation in operation
IP degree of protection	IP20 with protective cover in place
Pollution degree	2
Operating altitude	0...6561.68 ft (0...2000 m)
Storage altitude	0...9842.52 ft (0...3000 m)
Vibration resistance	0.7 gn at 13.2...100 Hz on panel mounting 1 mm at 5...13.2 Hz on panel mounting 3 gn at 8.7...150 Hz on symmetrical rail 1 mm at 5...13.2 Hz on symmetrical rail
Shock resistance	15 gn during 11 ms