



Galvenā

Produkta sērija	Modicon M251
Produkta vai sastāvdaļas veids	Logic controller
[Us] rated supply voltage	24 V DC

Papildinošs

Maximum number of I/O expansion module	7 local 14 remote
Supply voltage limits	20,4...28,8 V
Momentānā strāva ieslēgšanas brīdī	50 A
Power consumption in W	32,6...40,4 W with max number of I/O expansion module)
Memory capacity	64 MB system memory RAM
Data backed up	128 MB built-in flash memory backup of user programs
Data storage equipment	<= 16 GB SD karte nav obligāti)
Battery type	BR2032 lithium non-rechargeable 4 gads(-i)
Backup time	2 years 25 °C
Execution time for 1 KInstruction	0,3 Ms event and periodic task 0,7 ms other instruction
Application structure	3 cyclic master tasks + 1 freewheeling task 8 event tasks 4 cyclic master tasks 8 external event tasks
Realtime clock	With
Clock drift	<= 60 s/month 25 °C
Integrated connection type	USB ports mini B USB 2.0 Non isolated serial link serial RJ45 RS232/RS485 Dual-port Ethernet RJ45 CANopen J1939 SUB-D 9
Supply	Serial)serial link supply 5 V, <200 mA
Transmission rate	1.2...115.2 kbit/s (115.2 kbit/s by default) 15 m RS485 1.2...115.2 kbit/s (115.2 kbit/s by default) 3 m RS232 480 Mbit/s 3 m USB
Communication port protocol	USB ports USB - SoMachine-Network Non isolated serial link Modbus master/slave - RTU/ASCII or SoMachine-Network
Port Ethernet	Ethernet 10BASE-T/100BASE-TX - 2 copper cable
Web services	Web server

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Communication service	DHCP client Downloading Ethernet/IP slave device IEC VAR ACCESS Modbus TCP client Modbus TCP server Modbus TCP slave device Monitoring NGVL Programming Updating firmware SMS notifications FTP client/server SNMP client/server SQL client Send and receive email from the controller based on TCP/UDP library Web server (WebVisu & XWeb system) OPC UA server DNS client
Maximum number of connections	8 Modbus server 8 Modbus client 16 Ethernet/IP target 4 FTP server 10 web server 8 SoMachine protocol
CANopen feature profile	DR 303-1 DS 301 V4.02
Number of server device(s)	63 CANopen
Lokālā signalizēšana	Priekš PWR 1 LED (zaļš) Priekš RUN 1 LED (zaļš) Priekš module error (ERR) 1 LED (sarkans) Priekš I/O error (I/O) 1 LED (sarkans) Priekš SD card access (SD) 1 LED (zaļš) Priekš BAT 1 LED (sarkans) Priekš Ethernet port activity 1 LED (zaļš) Priekš SL 1 LED (zaļš) Priekš bus fault on TM4 (TM4) 1 LED (sarkans) Priekš CANopen run 1 LED (zaļš) Priekš CANopen error 1 LED (zaļš)
Electrical connection	Removable screw terminal block power supply pitch 5.08 mm)
Insulation	Non-insulated between supply and internal logic Between supply and ground 500 V AC
Marķējums	CE
Surge withstand	1 kV shielded cable common mode IEC 61000-4-5 1 kV power lines common mode IEC 61000-4-5 0,5 kV power lines differential mode IEC 61000-4-5
Mounting support	Top hat type TH35-15 rail IEC 60715 Top hat type TH35-7.5 rail IEC 60715 Plate or panel with fixing kit
Augstums	90 mm
Dziļums	95 mm
Platums	54 mm
Neto svars	0,22 kg

Vide






Standarti	ANSI/ISA 12-12-01 CSA C22.2 No 142 CSA C22.2 No 213 IEC 61131-2:2007. gads Marine specification (LR, ABS, DNV, GL) UL 508
Produkta sertifikācija	cULus[RETURN]CE[RETURN]UKCA[RETURN]DNV-GL[RETURN]ABS[RETURN]LR
Resistance to electrostatic discharge	8 kV in air IEC 61000-4-2 4 kV on contact IEC 61000-4-2
Resistance to electromagnetic fields	10 V/M 80 MHz...1 GHz IEC 61000-4-3 3 V/M 1.4 GHz...2 GHz IEC 61000-4-3 1 V/m 2 GHz...3 GHz IEC 61000-4-3
Resistance to fast transients	2 kV IEC 61000-4-4 power lines) 1 kV IEC 61000-4-4 Ethernet line) 1 kV IEC 61000-4-4 serial link)

Resistance to conducted disturbances	10 V 0.15...80 MHz IEC 61000-4-6 3 V 0.1...80 MHz Marine specification (LR, ABS, DNV, GL) 10 V spot frequency (2, 3, 4, 6.2, 8.2, 12.6, 16.5, 18.8, 22, 25 MHz) Marine specification (LR, ABS, DNV, GL)
Electromagnetic emission	Conducted emissions 120...69 dB μ V/m QP power lines)10...150 kHz IEC 55011 Conducted emissions 63 dB μ V/m QP power lines)1,5...30 MHz IEC 55011 Radiated emissions 40 dB μ V/m QP class A 10 m)30...230 MHz IEC 55011 Conducted emissions 79...63 dB μ V/m QP power lines)150...1500 kHz IEC 55011 Radiated emissions 47 dB μ V/m QP class A 10 m)230...1000 MHz IEC 55011
Immunity to microbreaks	10 ms
Ambient air temperature for operation	-10...35 °C vertical installation) -10...55 °C horizontal installation)
Apkārtējā gaisa temperatūra uzglabāšanai	-25...70 °C
Relative humidity	10...95 %, without condensation in operation) 10...95 %, without condensation in storage)
IP aizsardzības pakāpe	IP20 with protective cover in place
Piesārņojuma pakāpe	2
Darbības augstums	0...2000 m
Uzglabāšanas augstums	0...3000 m
Vibration resistance	3.5 mm 5...8,4 Hz symmetrical rail 3 gn 8,4...150 Hz symmetrical rail 3.5 mm 5...8,4 Hz panel mounting 3 gn 8,4...150 Hz panel mounting
Shock resistance	15 gn 11 ms

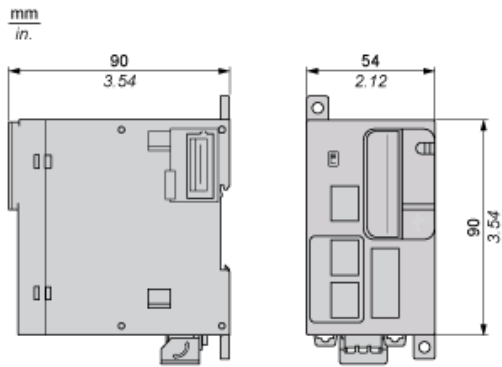
Iepakojšanas vienības

Pirmā iepakojuma vienības tips	PCE
Vienību skaits 1. iepakojumā	1
1. iepakojuma augstums	10,632 cm
1. iepakojuma platums	11,868 cm
1. iepakojuma garums	16,721 cm
1. iepakojuma svars	380,0 g
Otrā iepakojuma vienības tips	S03
Vienību skaits 2. iepakojumā	10
2. iepakojuma augstums	30 cm
2. iepakojuma platums	30 cm
2. iepakojuma garums	40 cm
2. iepakojuma svars	4,461 kg
Trešā iepakojuma vienības tips	P06
Vienību skaits 3. iepakojumā	80
3. iepakojuma augstums	75,0 cm
3. iepakojuma platums	40,0 cm
3. iepakojuma garums	80,0 cm
3. iepakojuma svars	43 kg

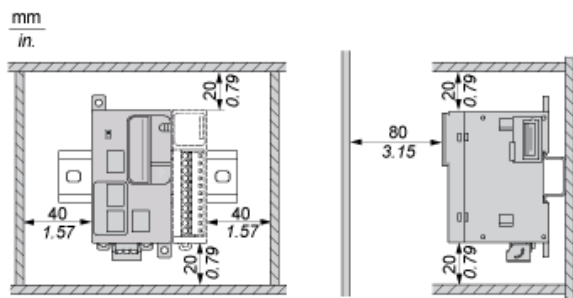
Piedāvājiēt ilgspēju

Ilgspējīgs piedāvājuma statuss	Green Premium izstrādājums
REACH regula	
ES RoHS direktīva	Proaktīva atbilstība (uz izstrādājumu neattiecas ES RoHS juridiskās saistības)
Nesatur dzīvsudrabu	Jā
Ķīnas RoHS regula	
Informācija par RoHS izņēmumiem	
Vides informācijas publicēšana	
Cirkularitātes profils	
WEEE	Eiropas Savienības tirgū no šī produkta ir jāatbrīvojas, ievērojot noteiktu atkritumu savākšanas kārtību, un produkts nedrīkst nonākt sadzīves atkritumu tvertnēs.
Nesatur PVH	Jā

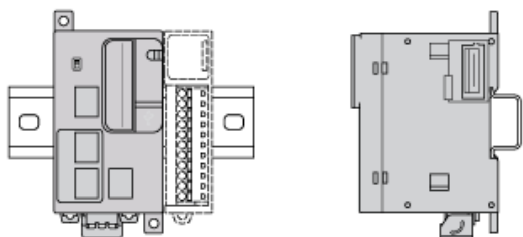
Dimensions



Clearance

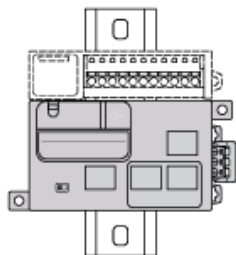


Mounting Position



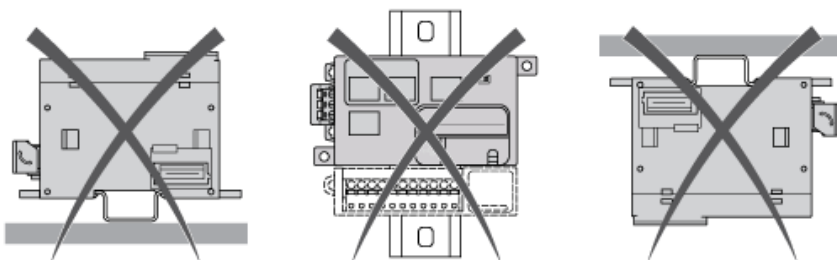
NOTE: Keep adequate spacing for proper ventilation and to maintain an ambient temperature between -10°C (14°F) and 55°C (131°F).

Acceptable Mounting



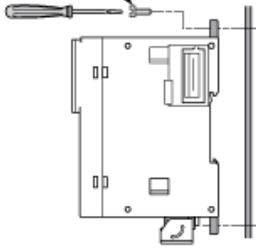
NOTE: Expansion modules must be mounted above the controller.

Incorrect Mounting

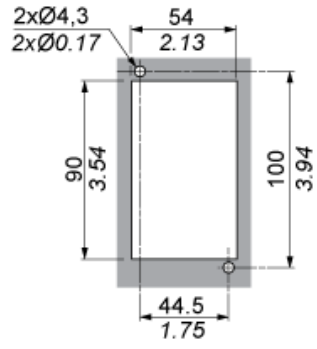


Direct Mounting on a Panel Surface

M4 x 6/8 mm
0.24/0.31 in.



mm
in.



USB Connection to a PC

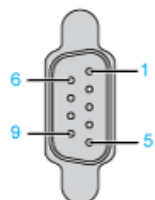


Ethernet Connection to a PC



CANopen

Wiring



Pin	Signal	Description
1	–	Reserved
2	CAN_L	CAN_L bus line
3	CAN_GND	CAN ground
4	–	Reserved
5	(CAN_SHLD)	Optional CAN shield
6	GND	Ground
7	CAN_H	CAN_H bus line
8	–	Reserved
9	(CAN_V+)	Optional CAN external positive supply