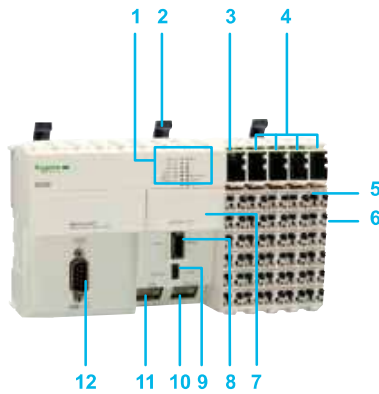




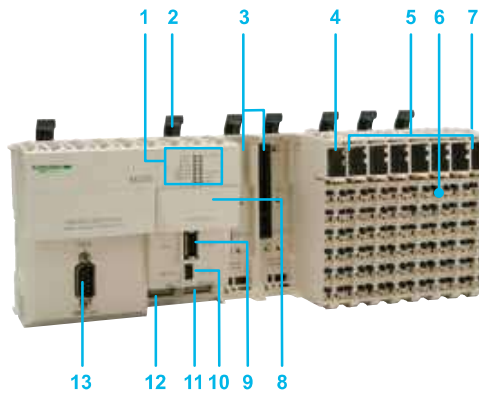
Description

The **TM258LD42DT** and **TM258LF42DT** logic controllers comprise:

- 1 A display block with:
 - 4 controller status LEDs (RUN/MS, BATTERY, APP0 and APP1)
 - 6 built-in communication port status LEDs (*Eth* LA, *Eth* ST, *Eth* NS, USB Host, MBS COM, CAN 0 STS)
- 2 Locking lever for mounting/dismounting on $\perp$ symmetrical rail.
- 3 A 24 V $\equiv$ power supply module with removable terminal block and locking lever, display block and slot for a label.
- 4 I/O modules, each one with: a removable terminal block with locking lever, a display block showing the I/O states and a slot for a label-holder.
- 5 Removable terminal block with locking lever for locking/unlocking.
- 6 On the side, an expansion bus connection for the link with the next module.
- 7 A slot for the RTC (Real Time Clock) battery.
- 8 A USB-A connector (marked Host) for connection of a USB memory stick for transferring programs, data or firmware updates.
- 9 A USB-B mini-connector (marked Pgr Port) for connection to the programming PC.
- 10 An RJ45 connector (marked Ethernet) for connection to the Ethernet network and/or connection to the Magelis XBT GT graphic terminal.
- 11 An RJ45 connector (marked MBS) for the RS232 or RS485 serial link.
- 12 A 9-way male SUB-D connector, marked CAN 0, for connection to the CANopen bus (TM258LF42DT only).

The **TM258LD42DT4L/LF42DT4L/LF42DR/LF66DT4L** logic controllers comprise:

- 1 A display block with:
 - 4 controller status LEDs (RUN/MS, BATTERY, APP0 and APP1)
 - 6 built-in communication port status LEDs (*Eth* LA, *Eth* ST, *Eth* NS, USB Host, MBS COM, CAN 0 STS)
- 2 Locking lever for mounting/dismounting on $\perp$ symmetrical rail.
- 3 Two free PCI slots for the communication module.
- 4 A 24 V $\equiv$ power supply module with removable terminal block and locking lever, display block and slot for a label.
- 5 I/O modules, each one with: a removable terminal block with locking lever, a display block showing the I/O states and a slot for a label-holder.
- 6 Removable terminal block with locking lever for locking/unlocking.
- 7 On the side, an expansion bus connection for the link with the next module.
- 8 A slot for the RTC (Real Time Clock) battery.
- 9 A USB-A connector (marked Host) for connection of a USB memory stick for transferring programs, data or firmware updates.
- 10 A USB-B mini-connector (marked Pgr Port) for connection to the programming PC.
- 11 An RJ45 connector (marked Ethernet) for connection to the Ethernet network and/or connection to the Magelis XBT GT graphic terminal.
- 12 An RJ45 connector (marked MBS) for the RS232 or RS485 serial link.
- 13 A 9-way male SUB-D connector, marked CAN 0, for connection to the CANopen bus (TM258LF42DT4L, TM258LF42DR and TM258LF66DT4L only).



References

Logic controllers, 24 V $\square$ power supply (1)

Nbr. of I/O	Inputs	Outputs	Built-in communication ports	Reference	Weight kg/lb
42 I/O	■ 26 x 24 V $\square$ digital inputs including 8 counter inputs (100 kHz)	■ 16 transistor digital outputs (0.5 A) including 4 reflex outputs	☐ 1 RJ45 port: Ethernet ☐ 1 USB-A port: program transfer ☐ 1 USB-B mini-port: software programming ☐ 1 RJ45 port: RS232/RS485 serial link	TM258LD42DT	0.500/ 1.102
			☐ 1 RJ45 port: Ethernet ☐ 1 SUB-D port (9-way male): CANopen master ☐ 1 USB-A port: program transfer ☐ 1 USB-B mini-port: software programming ☐ 1 RJ45 port: RS232/RS485 serial link	TM258LF42DT	0.550/ 1.213
42 + 4 I/O	■ 26 x 24 V $\square$ digital inputs including 8 counter inputs (100 kHz) ■ 4 analog inputs 10 V/- 10 V, 4-20 mA/0-20 mA, 12-bit resolution	■ 16 digital transistor outputs (0.5 A) including 4 reflex outputs	☐ 1 RJ45 port: Ethernet ☐ 1 USB-A port: program transfer ☐ 1 USB-B mini-port: software programming ☐ 1 RJ45 port: RS232/RS485 serial link ☐ + 2 free PCI slots for optional communication module (2): RS232/RS485 serial link and Profibus DP bus	TM258LD42DT4L	0.770/ 1.698
			☐ 1 RJ45 port: Ethernet ☐ 1 SUB-D port (9-way male): CANopen master ☐ 1 USB-A port: program transfer ☐ 1 USB-B mini-port: software programming ☐ 1 RJ45 port: RS232/RS485 serial link ☐ + 2 free PCI slots for optional communication modules (2): RS232/RS485 serial link and Profibus DP bus	TM258LF42DT4L	0.770/ 1.698
42 I/O	■ 26 x 24 V $\square$ digital inputs including 8 counter inputs (100 kHz)	■ 4 digital transistor (reflex) outputs (0.5 A) ■ 12 relay outputs	☐ 1 RJ45 port: Ethernet ☐ 1 SUB-D port (9-way male): CANopen master ☐ 1 USB-A port: program transfer ☐ 1 USB-B mini-port: software programming ☐ 1 RJ45 port: RS232/RS485 serial link ☐ + 2 free PCI slots for optional communication modules (2): RS232/RS485 serial link and Profibus DP bus	TM258LF42DR	0.800/ 1.764
66 + 4 I/O	■ 38 x 24 V $\square$ digital inputs including 8 counter inputs (100 kHz) ■ 4 analog inputs + 10 V/- 10 V, 4-20 mA/0-20 mA, 12-bit resolution	■ 28 digital transistor outputs (0.5 A) including 4 reflex outputs	☐ 1 RJ45 port: Ethernet ☐ 1 SUB-D port (9-way male): CANopen master ☐ 1 USB-A port: program transfer ☐ 1 USB-B mini-port: software programming ☐ 1 RJ45 port: RS232/RS485 serial link ☐ + 2 free PCI slots for optional communication modules (2): RS232/RS485 serial link and Profibus DP bus	TM258LF66DT4L	0.800/ 1.764

(1) The Modicon M258 logic controllers require a power supply with a nominal voltage of 24 V $\square$, Separated Extra Low Voltage (SELV-rated) according to IEC 61140.

The SELV-rating means that SELV isolation is provided between the electrical input and output of the power supply.

(2) To be ordered separately see page 12.



TM258LD42DT



TM258LF42DT



TM258LD42DT4L



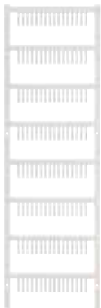
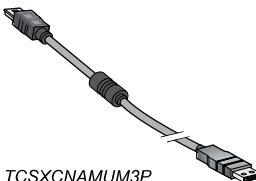
TM258LF42DT4L



TM258LF42DR



TM258LF66DT4L

References						
Accessories						
Type	Used for	Colour	Sold in lots of	Unit reference	Weight kg/ lb	
 TM5ACTLC100	Marking the terminal blocks on the I/O channels	Transparent	100	TM5ACTCH100	0.002/ 0.004	
 TM5ACTCH100	Locking plain text cover holder TM5ACTCH100 (Order with plain text cover holder TM5ACTCH100)	Transparent	100	TM5ACTLC100	0.001/ 0.002	
	Precut legend strips of paper	White	100	TM5ACTLS100	0.001/ 0.002	
 TM5ACLITW1	Labelling 16 connection channel terminals	White	1	TM5ACLITW1	0.015/ 0.033	
		Red	1	TM5ACLITR1	0.015/ 0.033	
		Blue	1	TM5ACLITB1	0.015/ 0.033	
	Metal tool	Inserting/removing TM5ACLIT●1	Black	1	TM5ACLT1	0.030/ 0.066
Connection cables						
Description	Use from	to	Length m/ft..	Reference	Weight kg lb	
 TM5ACLT1	PC USB port	USB mini-port on M258 controllers	3 / 9.84	TCSXCNAMUM3P	0.065 / 0.143	
 TCSXCNAMUM3P	RS485 serial link cables Modbus protocol	SUB-D port (25-way) on Small Panel compact display units: XBTN4●●	1.8 / 5.90	XBTZ938	0.230 / 0.507	
		RJ45 port on XBTGT graphic touch screen terminals	2.5 / 8.20	XBTZ9980	0.230/ 0.507	
	RS232 serial link cables Character mode	SUB-D port (9-way female) on DTE equipment (1): printer, hand-held bar code reader, etc.	3 / 9.84	TCSMCN3M4F3C2	0.150/ 0.331	
		SUB-D port (9-way female) on DCE equipment (2): GSM modem	3 / 9.84	TCSMCN3M4M3S2	0.150/ 0.331	

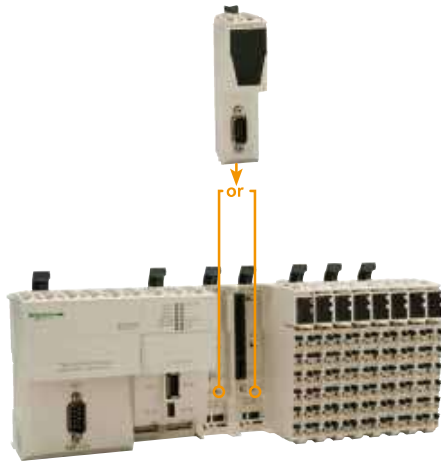
(1) DTE: Data Terminal Equipment.

(2) DCE: Data Communication Equipment.

Modicon M258 logic controller

Modicon TM5 communication modules

For Modbus serial link



TM5PCRS communication module: for mounting the two free PCI slots in the Modicon M258 logic controller or Modicon LMC058 motion controller



Presentation

TM5PCRS communication modules are designed for **TM258LD42DT4L**, **TM258LF42DT4L**, **TM258LF42DR**, **TM258LF66DT4L** logic controllers, **LMC058LF42** and **LMC058LF424** motion controllers and are installed in one of the two free PCI slots in.

TM5PCRS communication modules can be used to configure one or two additional Modbus or ASCII serial links as RS232 or RS485.

Nota: the maximum number of communication modules is 2.

Modbus and Character mode serial links

Cabling system: [Please consult our catalog "Modbus for machines"](#).

Description

TM5PCRS communication modules comprise:

- 1 A locking clip for mounting/dismounting on the controller
- 2 A channel and module diagnostics LED display block
- 3 A connector for linking to the controller
- 4 A SUB-D connector (male 9-way) for connection to the serial link

Serial link

LED	Colour	Status: on
Status	Green	Operation in progress
	Red	Controller starting
RXD	Yellow	Reception on interface: ☐ RS232 with TM258PCRS2 ☐ RS485 with TM258PCRS4
TXD	Yellow	Transmission on interface: ☐ RS232 with TM258PCRS2 ☐ RS485 with TM258PCRS4

Modicon M258 logic controller
Modicon TM5 communication modules
For Modbus serial link



TM5PCRS●

References					
Description	Used for	Physical layer/ protocols	Built-in port	Reference	Weight kg/lb
Modbus serial link communication modules	Logic controllers: □ TM258LD42DT4L, □ TM258LF42DT4L, □ TM258LF42DR, □ TM258LF66DT4L Motion controllers: □ LMC058LF42, □ LMC058LF424	RS232/ Modbus/ASCII, SoMachine	SUB-D connector (male 9-way)	TM5PCRS2	0.064/ 0.14
		RS485 / Modbus/ASCII, SoMachine	SUB-D connector (male 9-way)	TM5PCRS4	0.064/ 0.14