



Main

Range of product	Modicon M168 logic controller
Product or component type	Graphic display
Power consumption in W	<= 5 W
Display type	LCD
Display colour	Monochrome
Display resolution	128 x 64 pixels
[Us] rated supply voltage	24 V AC/DC non isolated
Number of key	6
Supply	External source

Complementary

Standards	EN 60730-1 EN 61000-6-1 EN 61000-6-3 UL 60730-1 CSA 60730-1
Product certifications	WEEE REACH
Marking	CE
Realtime clock	With clock, clock drift <= 30 s/month, operating time: 2 days
Local signalling	1 LED green power supply 1 LED red bus activity RX (reception) 1 LED red bus activity TX (transmission)
Memory type	Internal
Backup time	10 years
Number of read/write cycles	1000000
Supply voltage limits	18...30 V
Immunity to microbreaks	10 ms
Height	5.24 in (133 mm)
Width	4.41 in (112 mm)
Depth	1.42 in (36 mm)
Product weight	0.53 lb(US) (0.24 kg)

Environment

ambient air temperature for operation	32...131 °F (0...55 °C)
ambient air temperature for storage	-4...158 °F (-20...70 °C)
IP degree of protection	IP40 on front face
pollution degree	2
overvoltage category	III
vibration resistance	3.5 mm (f = 5...< 8.4 Hz conforming to EN/IEC 60028-2-6 1 gn (f = 8.4...150 Hz conforming to EN/IEC 60028-2-6)
shock resistance	15 gn 11 ms

Offer Sustainability

Green Premium product	Green Premium product
Compliant - since 1039 - Schneider Electric declaration of conformity	Compliant - since 1039 - Schneider Electric declaration of conformity
Reference not containing SVHC above the threshold	Reference not containing SVHC above the threshold

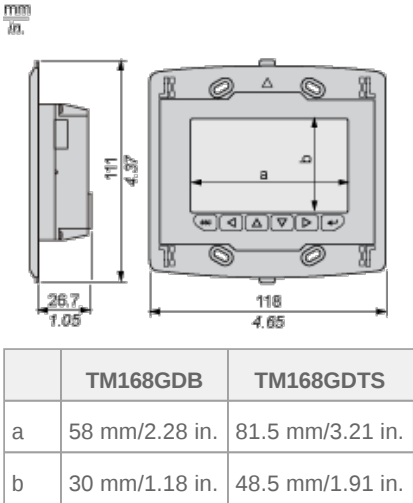
Available	Available
Available	Available

Contractual warranty

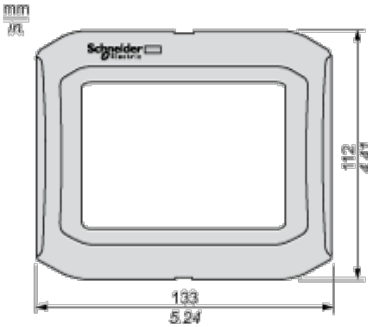
Warranty period	18 months
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Graphical Remote Displays

Dimensions

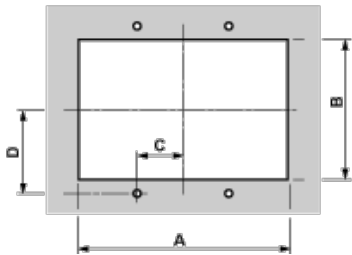


Front frame (included)



Graphical Remote Displays

Panel Cut-out



TM168GDB/ TM168GDTS	Minimum	Typical	Maximum
A	104 mm/4.09 in.	104 mm/4.09 in.	104.8 mm/4.13 in.
B	70 mm/2.76 in.	70 mm/2.76 in.	70.8 mm/2.79 in.
C	22 mm/0.87 in.	23 mm/2.28 in.	24 mm/0.94 in.
D	40.8 mm/1.61 in.	41.8 mm/1.65 in.	42.8 mm/1.69 in.

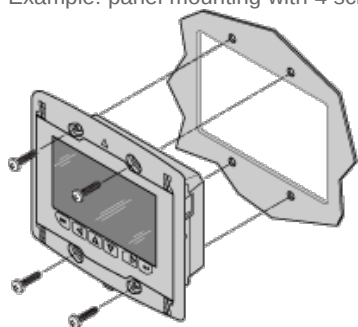
Installation

Several types of installation are offered:

- panel mounting

- ▮ built-in mounting
- ▮ wall mounting, with the support TM168AGD1 (order separately)

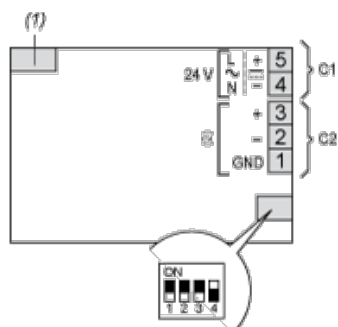
Example: panel mounting with 4 screws (not included).



A front frame can be applied to the front of the device (included).

Graphical Remote Displays

Wiring Diagram



(1) Programming port

(2) Expansion

C1 Connector 1

C2 Connector 2

If the device is at the end of the expansion bus, position the micro-switch 4 to ON. Micro-switches 1, 2 and 3 are reserved.

Connector 1: power supply

PIN	MEANING
4	power supply
5	power supply

Connector 2: expansion bus

PIN	MEANING
1	common (GND)
2	signal –
3	signal +

Wiring Requirements

- ▮ Solid wires 0.05...1.5 mm² (30...16 AWG)
- ▮ Stranded wires 0.05...1.0 mm² (30...17 AWG)
- ▮ Stripping length 5...6 mm (0.20...0.24 in.)
- ▮ Tightening torque 0.2...0.25 Nm (1.77...1.21 lb-in)