

Product data sheet

Specifications



graphic display, Modicon M221, unit,
240 x 160pixels

TMH2GDB

Product availability: Stock - Normally stocked in distribution facility

Main

Range of Product	Modicon M221
Product or Component Type	Graphic display
Range Compatibility	Modicon M221
Current consumption	40 mA 5 V DC via RJ45 connector
Power Consumption in W	1 W
Display Type	Backlit colour STN LCD
Display colour	Monochrome
Display Resolution	240 x 160 pixels
Number of key	4 configurable 6 for navigation

Complementary

Standards	IEC 61131-2 IEC 61010-2-201
Product Certifications	cULus
Marking	CE
Mounting location	Front cabinet 0.9 in (22 mm) hole Bottom of cabinet 0.9 in (22 mm) hole mounting accessory
Connector type	RJ45 communication and power supply
Height	5.0 in (126 mm)
Width	3.1 in (80 mm)
Depth	2.5 in (63 mm)
Product Weight	0.37 lb(US) (0.17 kg)

Environment

Ambient Air Temperature for Operation	5...122 °F (-15...50 °C)
Operating altitude	0...6561.68 ft (0...2000 m)
Storage altitude	0...6561.7 ft (0...2000 m)
Environmental characteristic	Corrosive gas free
Relative humidity	95 %, non-condensing transport) 95 %, non-condensing storage) 95 %, non-condensing operation)
Ambient Air Temperature for Storage	-40...158 °F (-40...70 °C)
IP degree of protection	IP65 front face: IP20 back part:

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Pollution degree	2 IEC 60664-1
Vibration resistance	1.5 mm (f= 3...150 Hz) 2 gn
Shock resistance	15 gn 11 ms
Electromagnetic compatibility	Electrostatic discharge - test level: 8 kV (air discharge) conforming to IEC 61000-4-2 Electrostatic discharge - test level: 4 kV (contact discharge) conforming to IEC 61000-4-2 Radiated radio-frequency electromagnetic field immunity test - test level: 10 V/m (80 MHz...1 GHz) conforming to IEC 61000-4-3 Radiated radio-frequency electromagnetic field immunity test - test level: 3 V/m (1.4...2 GHz) conforming to IEC 61000-4-3 Radiated radio-frequency electromagnetic field immunity test - test level: 1 V/m (2...3 GHz) conforming to IEC 61000-4-3 Magnetic field at power frequency - test level: 30 A/m (50/60 Hz) conforming to IEC 61000-4-8 Electrical fast transient/burst immunity test - test level: 1 kV conforming to IEC 61000-4-4 Surge immunity test - test level: 0.5 kV (common mode) conforming to IEC 61000-4-5 Surge immunity test - test level: 0.5 kV (differential mode) conforming to IEC 61000-4-5 Conducted RF disturbances - test level: 10 Vrms (0.15...80 MHz) conforming to IEC 61000-4-6 Disturbing field emission - test level: 10...150 kHz (power lines (DC)) conforming to IEC 55011 Disturbing field emission - test level: 120...69 dBµV/m QP (power lines (DC)) conforming to IEC 55011 Disturbing field emission - test level: 150...1500 kHz (power lines (DC)) conforming to IEC 55011 Disturbing field emission - test level: 1.5...30 kHz (power lines (DC)) conforming to IEC 55011 Disturbing field emission - test level: 30...230 MHz class A (10 m) conforming to IEC 55011 Disturbing field emission - test level: 230 MHz...1 GHZ class A (10 m) conforming to IEC 55011 Disturbing field emission - test level: 79...63 dBµV/m QP (power lines (DC)) conforming to IEC 55011 Disturbing field emission - test level: 63 dBµV/m QP (power lines (DC)) conforming to IEC 55011 Disturbing field emission - test level: 40 dBµV/m QP class A (10 m) conforming to IEC 55011 Disturbing field emission - test level: 47 dBµV/m QP class A (10 m) conforming to IEC 55011

Ordering and shipping details

Category	US10MSX22533
Discount Schedule	0MSX
GTIN	3606480752216
Returnability	Yes
Country of origin	ID

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	3.189 in (8.100 cm)
Package 1 Width	5.512 in (14.000 cm)
Package 1 Length	7.283 in (18.500 cm)
Package weight(Lbs)	11.499 oz (326.000 g)
Unit Type of Package 2	S03
Number of Units in Package 2	12
Package 2 Height	11.811 in (30.000 cm)

Package 2 Width	11.811 in (30.000 cm)
Package 2 Length	15.748 in (40.000 cm)
Package 2 Weight	10.450 lb(US) (4.740 kg)

Contractual warranty

Warranty (in months)	18
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



Environmental footprint

Total lifecycle Carbon footprint	53 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	35 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	18 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.1 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile

Use Better



Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	7815f7f5-1bc2-4e36-a012-cfda55fde533
EU RoHS Directive	Compliant By Exemption
REACH Regulation	Reference contains Substances of Very High Concern above the threshold
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
PVC free	Yes

Use Longer



Lifetime extension

Repair	No
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Use Again



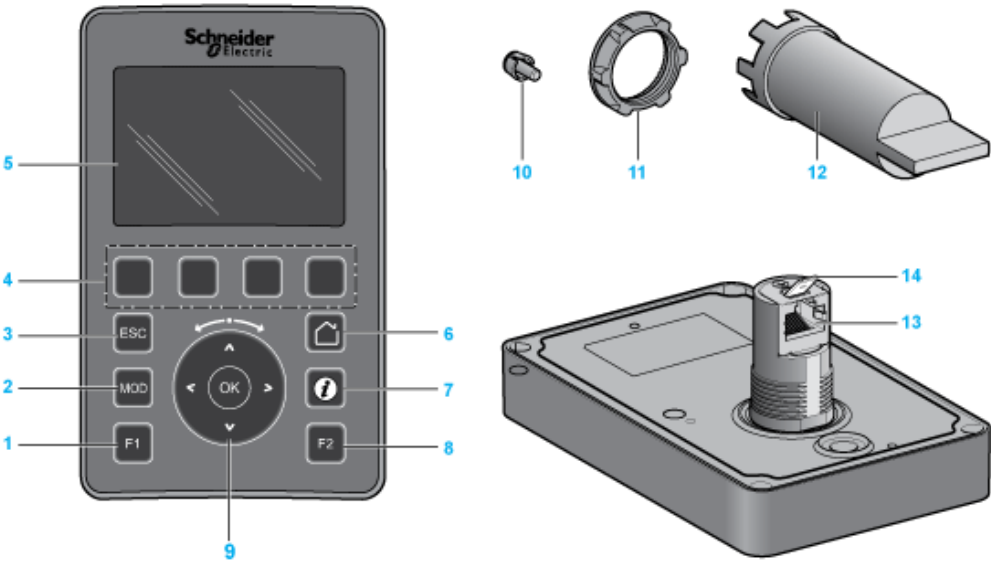
Repack and remanufacture

Recyclability potential, in %	27
Circularity Profile	End of Life Information
Take-back	No
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Presentation

Remote Graphic Display

Overview

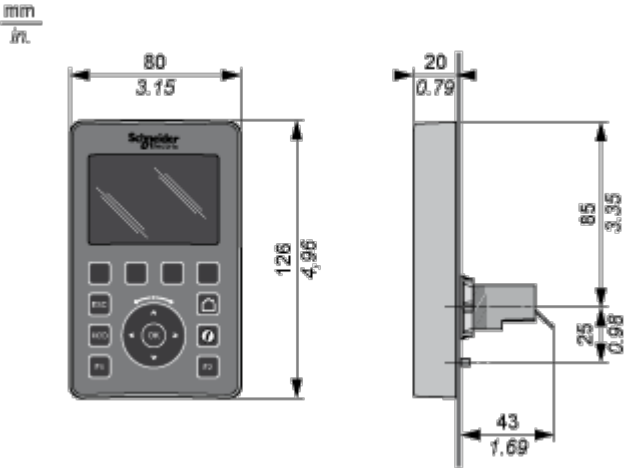


- 1 : F1 key
- 2 : MOD key
- 3 : ESC key
- 4 : R1 to R4 keys
- 5 : Graphic screen
- 6 : Home key
- 7 : Information key
- 8 : F2 key
- 9 : Touch wheel/OK/Arrows
- 10 : Anti-rotation tee
- 11 : Installation nut
- 12 : Socket wrench (ZB5AZ905)
- 13 : RJ45 serial line (RS-485)
- 14 : Connector for functional ground (earth)

Dimensions Drawings

Remote Graphic Display

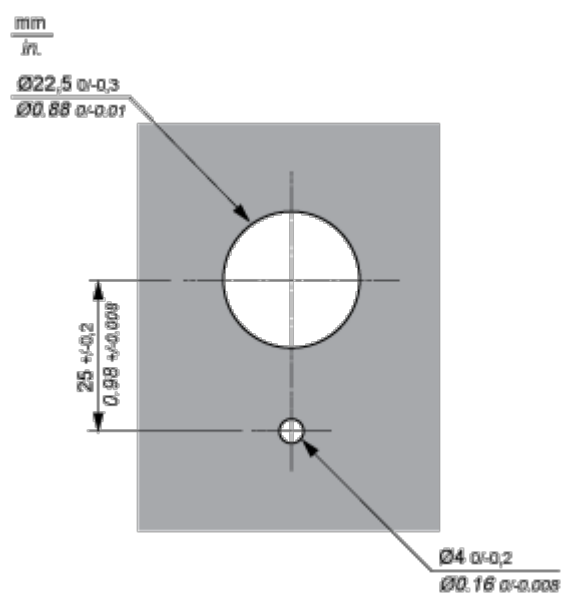
Dimensions



Mounting and Clearance

Mounting and Clearances

Mounting Hole Layout



Minimum Clearances

