Product data sheet
Characteristics

TMH2GDB
graphic display, Modicon M221, unit, 240 x 160pixels



Main

Range of product	Modicon M221
Product or component type	Graphic display
Range compatibility	Modicon M221
Current consumption	40 mA at 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 diameter: 22 mm hole Bottom of cabinet diameter: 22 mm hole, connection via mounting accessory
Connector type	RJ45 for communication and power supply
Height	126 Mm
Width	80 Mm
Depth	63 Mm
Net weight	0.17 Kg

Environment

Ambient air temperature for operation	-15…50 °C
Operating altitude	0...2000 m
Storage altitude	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…70 °C
IP degree of protection	IP65 front face: IP20 back part:
Pollution degree	2 conforming to IEC 60664-1
Vibration resistance	1.5 mm (f= 3…150 Hz) 2 gn

Shock resistance	15 gn for 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 Radiated radio-frequency electromagnetic field immunity test - test level: 3 V/m (1.4...2 GHz) conf Radiated radio-frequency electromagnetic field immunity test - test level: 1 V/m (2...3 GHz) confor 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 55 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 55 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

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	8.100 Cm
Package 1 Width	14.000 Cm
Package 1 Length	18.500 Cm
Package 1 Weight	326.000 G
Unit Type of Package 2	S03
Number of Units in Package 2	12
Package 2 Height	30.000 Cm
Package 2 Width	30.000 Cm
Package 2 Length	40.000 Cm
Package 2 Weight	4.740 Kg

Offer Sustainability

Recyclability potential, in %	27
Total lifecycle Carbon footprint	53 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	35.086
Carbon footprint of the manufacturing phase [A1 to A3]	35 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.042887
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.0069495
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	17.897
Carbon footprint of the use phase [B2, B3, B4, B6]	18 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	0.079493
Carbon footprint of the end-of-life phase [C1 to C4]	0.1 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	53
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	7815f7f5-1bc2-4e36-a012-cfda55fde533
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant By Exemption
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which
PVC free	Yes

End of life manual availability	End Of Life Information
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection a

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised