



# Remote receiver module, Modicon TM3,

TM3XREC1

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Range of product	Modicon TM3
Product or component type	Remote receiver module
Range compatibility	Modicon M221 Modicon M251 Modicon M241 Modicon M262
[Us] rated supply voltage	24 V DC by external supply (- 1520 %)

Complementary		
Maximum number of I/O expansion module	7	
Power supply output current	560 mA 5 V for expansion bus 560 mA 24 V for expansion bus	
Current consumption	40 mA at 24 V DC via bus connector	
Maximum power dissipation in W	1 W	
Cable distance between devices	0.55 mm extension cable with 2 RJ45 conductor between receiver and transmitter	
Local signalling	1 LED (green) for power supply 1 LED (green) for link status	
Electrical connection	RJ45 connector for connecting the bus transmitter removable screw terminal block, 3 terminal(s) for connecting the 24 V DC power supply	
Marking	CE	
Resistance to electrostatic discharge	8 kV in air conforming to EN/IEC 61000-4-2 6 kV on contact conforming to EN/IEC 61000-4-2	
Resistance to electromagnetic fields	10 V/m 80 MHz1 GHz conforming to EN/IEC 61000-4-3 3 V/m 1.4 GHz2 GHz conforming to EN/IEC 61000-4-3 1 V/m 22.7 GHz conforming to EN/IEC 61000-4-3	
Resistance to conducted disturbances	10 V 0.1580 MHz conforming to EN/IEC 61000-4-6 3 V spot frequency (2, 3, 4, 6.2, 8.2, 12.6, 16.5, 18.8, 22, 25 MHz) conforming to Marine specification (LR, ABS, DNV, GL)	
Electromagnetic emission	Radiated emissions - test level: 40 dB $\mu$ V/m QP class A ( 10 m) at 30230 MHz conforming to EN/IEC 55011 Radiated emissions - test level: 47 dB $\mu$ V/m QP class A ( 10 m) at 2301000 MHz conforming to EN/IEC 55011	
Mounting support	Top hat type TH35-15 rail conforming to IEC 60715 Top hat type TH35-7.5 rail conforming to IEC 60715 plate or panel with fixing kit	

Height

Depth         73.3 mm           Width         23.65 mm           Not weight         0.76 kg           Environment           Standards         Class I Division 2 Geospa ABCC U. 1504 Cas C22 2 No 213 Cas I Division 2 Geospa ABCC U. 1504 Cas Cas Cas Cas Cas I Division 2 Geospa ABCC U. 1504 Cas		
Net weight   0.075 kg	Depth	73.3 mm
Environment  Standards  Class I Division 2 Groups ABROD CSA C22 2 No 213 Class I Division 2 Groups ABROD CSA C22 2 No 213 Class I Division 2 Groups ABROD L1 1660 CSA C22 2 No 162 IEC 611312 CTGA CST CTGA CS CS CS CTGA CS CTG CTGA CS CTG CTGA CS CTG	Width	23.65 mm
Standards Class I Division 2 Choops ABCCD CSA C22 2 No 213 Class Division 2 Choops ABCCD LEGO CSA C22 2 No 142 ELS 61312. UL 508  Product certifications Merchant Navy COST COTTA CSA Harbaco CTCA ROD	Net weight	0.075 kg
Standards Class I Division 2 Coupts ABCCD CSA C22 2 No 213 CIGSR Division 2 Coupts ABCCD U. 1804 CIGSR Division 2 Coupts Division 2 Coupts ABCCD U. 1804 CIGSR Division 2 Coupts Division 2 Coupts ABCCD U. 1804 CIGSR Division 2 Coupts	F	
Class   Division 2 Strougs A/B/C UL 1604		
CoTick   Canal	Standards	Class I Division 2 Groups A/B/C UL 1604 CSA C22.2 No 142 IEC 61131-2
Ambient air temperature for storage   4070 °C	Product certifications	GOST C-Tick CSA HazLoc CE UKCA RCM EAC
Relative humidity 595 % without condensation  IP degree of protection IP20 with protective cover in place  Pollution degree 2  Operating altitude 02000 m  Storage altitude 03000 m  Vibration resistance 3.5 mm at 58.4 Hz on DIN rail 3.5 mm at 58.4 Hz on DIN rail 3.5 mm at 58.4 Hz on panel 3.5 mm at 58 Hz on panel 3.5 mm at		
P degree of protection		-4070 °C
Pollution degree   2	Relative humidity	595 % without condensation
Operating altitude         02000 m           Storage altitude         03000 m           Vibration resistance         3.5 mm at 58.4 Hz on DIN rail 3.5 mm at 58.4 Hz on panel 3.9 m at 54150 Hz on panel 3.5 mm at 584 Hz on panel 3.5 mm at 5	IP degree of protection	IP20 with protective cover in place
Storage attitude	Pollution degree	2
Vibration resistance  3.5 mm at 58.4 Hz on DIN rail 3 gn at 8.4150 Hz on DIN rail 3.5 mm at 58.4 Hz on DIN rail 3.5 mm at 58.4 Hz on DIN rail 3.5 mm at 58.4 Hz on panel 3.5 mm at 58.4 Hz on DIN rail 4.08.4 Hz on DIN rail 4.08.4 Hz on DIN rail 4.0	Operating altitude	02000 m
3 gn at 8.4150 Hz on plN rail 3,5 mm at 58 4 Hz on panel 3 gn at 8.4150 Hz on panel  Packing Units  Unit Type of Package 1 PCE  Number of Units in Package 1 1  Package 1 Height 7.414 cm  Package 1 Width 10.483 cm  Package 1 Length 12.587 cm  Package 1 Weight 160.0 g  Unit Type of Package 2 S03  Number of Units in Package 2 I8  Package 2 Height 30 cm  Package 2 Height 30 cm  Package 2 Width 30 cm  Package 2 Width 40 cm  Package 2 Weight 3.631 kg  Unit Type of Package 3 P12  Number of Units in Package 3 P12  Number of Units in Package 3 144  Package 3 Height 75 cm  Package 3 Height 60 cm	Storage altitude	03000 m
Unit Type of Package 1         PCE           Number of Units in Package 1         PCE           Package 1 Height         7.414 cm           Package 1 Width         10.483 cm           Package 1 Length         12.587 cm           Package 1 Weight         160.0 g           Unit Type of Package 2         S03           Number of Units in Package 2         18           Package 2 Height         30 cm           Package 2 Width         30 cm           Package 2 Length         40 cm           Package 2 Weight         3.631 kg           Unit Type of Package 3         P12           Number of Units in Package 3         144           Package 3 Height         75 cm           Package 3 Width         60 cm		3 gn at 8.4150 Hz on DIN rail 3.5 mm at 58.4 Hz on panel 3 gn at 8.4150 Hz on panel
Unit Type of Package 1         PCE           Number of Units in Package 1         PCE           Number of Units in Package 1         1           Package 1 Height         7.414 cm           Package 1 Width         10.483 cm           Package 1 Length         12.587 cm           Package 1 Weight         160.0 g           Unit Type of Package 2         S03           Number of Units in Package 2         18           Package 2 Height         30 cm           Package 2 Width         30 cm           Package 2 Length         40 cm           Package 2 Weight         3.631 kg           Unit Type of Package 3         P12           Number of Units in Package 3         144           Package 3 Height         75 cm           Package 3 Width         60 cm	Packing Units	
Package 1 Height       7.414 cm         Package 1 Width       10.483 cm         Package 1 Length       12.587 cm         Package 1 Weight       160.0 g         Unit Type of Package 2       803         Number of Units in Package 2       18         Package 2 Height       30 cm         Package 2 Width       30 cm         Package 2 Length       40 cm         Package 2 Weight       3.631 kg         Unit Type of Package 3       P12         Number of Units in Package 3       144         Package 3 Height       75 cm         Package 3 Width       60 cm	<u>-</u>	PCE
Package 1 Width 10.483 cm  Package 1 Length 12.587 cm  Package 1 Weight 160.0 g  Unit Type of Package 2 S03  Number of Units in Package 2 18  Package 2 Height 30 cm  Package 2 Width 30 cm  Package 2 Length 40 cm  Package 2 Weight 3.631 kg  Unit Type of Package 3 P12  Number of Units in Package 3 144  Package 3 Height 75 cm  Package 3 Width 60 cm	Number of Units in Package 1	1
Package 1 Length 12.587 cm  Package 1 Weight 160.0 g  Unit Type of Package 2 S03  Number of Units in Package 2 18  Package 2 Height 30 cm  Package 2 Width 30 cm  Package 2 Length 40 cm  Package 2 Weight 3.631 kg  Unit Type of Package 3 P12  Number of Units in Package 3 144  Package 3 Height 75 cm  Package 3 Width 60 cm	Package 1 Height	7.414 cm
Package 1 Weight 160.0 g  Unit Type of Package 2 S03  Number of Units in Package 2 18  Package 2 Height 30 cm  Package 2 Width 30 cm  Package 2 Length 40 cm  Package 2 Weight 3.631 kg  Unit Type of Package 3 P12  Number of Units in Package 3 144  Package 3 Height 75 cm  Package 3 Width 60 cm	Package 1 Width	10.483 cm
Unit Type of Package 2 S03  Number of Units in Package 2 18  Package 2 Height 30 cm  Package 2 Width 30 cm  Package 2 Length 40 cm  Package 2 Weight 3.631 kg  Unit Type of Package 3 P12  Number of Units in Package 3 144  Package 3 Height 75 cm  Package 3 Width 60 cm	Package 1 Length	12.587 cm
Number of Units in Package 2 18  Package 2 Height 30 cm  Package 2 Width 30 cm  Package 2 Length 40 cm  Package 2 Weight 3.631 kg  Unit Type of Package 3 P12  Number of Units in Package 3 144  Package 3 Height 75 cm  Package 3 Width 60 cm	Package 1 Weight	160.0 g
Package 2 Height 30 cm  Package 2 Width 30 cm  Package 2 Length 40 cm  Package 2 Weight 3.631 kg  Unit Type of Package 3 P12  Number of Units in Package 3 144  Package 3 Height 75 cm  Package 3 Width 60 cm	Unit Type of Package 2	S03
Package 2 Width 30 cm  Package 2 Length 40 cm  Package 2 Weight 3.631 kg  Unit Type of Package 3 P12  Number of Units in Package 3 144  Package 3 Height 75 cm  Package 3 Width 60 cm	Number of Units in Package 2	18
Package 2 Length 40 cm  Package 2 Weight 3.631 kg  Unit Type of Package 3 P12  Number of Units in Package 3 144  Package 3 Height 75 cm  Package 3 Width 60 cm	Package 2 Height	30 cm
Package 2 Weight 3.631 kg  Unit Type of Package 3 P12  Number of Units in Package 3 144  Package 3 Height 75 cm  Package 3 Width 60 cm	Package 2 Width	30 cm
Unit Type of Package 3 P12  Number of Units in Package 3 144  Package 3 Height 75 cm  Package 3 Width 60 cm	Package 2 Length	40 cm
Number of Units in Package 3 144 Package 3 Height 75 cm Package 3 Width 60 cm	Package 2 Weight	3.631 kg
Package 3 Height 75 cm Package 3 Width 60 cm	Unit Type of Package 3	P12
Package 3 Width 60 cm	Number of Units in Package 3	144
	Package 3 Height	75 cm
Package 3 Length 80 cm	Package 3 Width	60 cm
	Package 3 Length	80 cm

Package 3 Weight 40 kg	Package 3 Weight	40 kg	
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## Offer Sustainability

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Sustainable offer status	Green Premium product	
REACh Regulation	REACh Declaration	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration	
Mercury free	Yes	
China RoHS Regulation	China RoHS declaration	
RoHS exemption information	Yes	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	End of Life Information	
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins	
PVC free	Yes	
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	

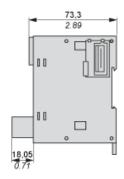
## **Product data sheet**

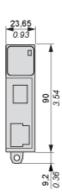
## TM3XREC1

Dimensions Drawings

#### **Dimensions**





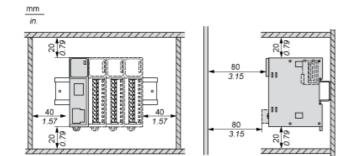


## **Product data sheet**

## TM3XREC1

Mounting and Clearance

#### **Spacing Requirements**

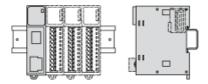


## **Product data sheet**

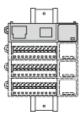
## TM3XREC1

Mounting and Clearance

#### Mounting on a Rail



#### **Vertical Mounting**



#### **Incorrect Mounting**

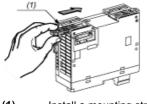




## TM3XREC1

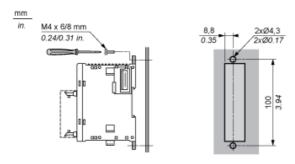
Mounting and Clearance

#### Mounting on a Panel Surface



(1) Install a mounting strip

#### **Mounting Hole Layout**



#### Recommended replacement(s)