

## SPECIFICATIONS

# NI TSM-101x

## NI TSM-1012, NI TSM-1015, NI TSM-1017 Touch Screen Monitors

This document provides the specifications for the NI TSM-101x. Specifications are subject to change without notice. For the most recent display panel specifications, visit [ni.com/manuals](http://ni.com/manuals).



**Caution** Do not operate the NI TSM-101x in a manner not specified in this document. Product misuse can result in a hazard. You can compromise the safety protection built into the product if the product is damaged in any way. If the product is damaged, return it to NI for repair.

## LCD Characteristics

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### NI TSM-1012

LCD Display	305 mm (12 in.) (4:3)
Maximum Resolution	1024 × 768
Brightness (cd/m <sup>2</sup> )	600
Contrast Ratio	700:1
LCD Color	16.2 M
Pixel Pitch	0.24 mm × 0.24 mm
Viewing Angle (H-V)	160°/140°
Backlight MTBF	50,000 hours

### NI TSM-1015

LCD Display	381 mm (15 in.) (4:3)
Maximum Resolution	1024 × 768
Brightness (cd/m <sup>2</sup> )	400
Contrast Ratio	700:1
LCD Color	16.2 M
Pixel Pitch	0.29 mm × 0.29 mm
Viewing Angle (H-V)	160°/140°
Backlight MTBF	50,000 hours

# NI TSM-1017

LCD Display	432 mm (17 in.) (5:4)
Maximum Resolution	1280 × 1024
Brightness (cd/m <sup>2</sup> )	350
Contrast Ratio	1000:1
LCD Color	16.7 M
Pixel Pitch	0.26 mm × 0.26 mm
Viewing Angle (H-V)	170°/160°
Backlight MTBF	50,000 hours

## I/O Ports

VGA (DB-15)	1
DVI-D	1
DisplayPort 1.1	1
USB 2.0 for touchscreen	1
RS-232 for touchscreen	1
Lockable 9 to 36 VDC jack	1
9 to 36 V terminal block	1

## Power Requirements



**Caution** You must use a UL Listed ITE power supply marked LPS with the NI TSM-101x.

Power input range	9 to 36 VDC
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## Physical Characteristics

Construction	Aluminum front cover, sheet metal rear cover
Mounting	Panel, V-Mount (NI TSM-1012 only), rack mount, monitor arm, or monitor stand
Screw-terminal wiring gauge	0.2 mm <sup>2</sup> to 2.1 mm <sup>2</sup> (20 to 14 AWG) copper conductor wire with 10.0 mm (0.39 in.) of insulation stripped from the end

## Locking adapter connector size

Inner diameter	2.5 mm (0.10 in.)
Outer diameter	5.5 mm (0.22 in.)

## NI TSM-1012

Dimensions	262.2 mm × 322.2 mm × 40.5 mm (10.32 in. × 12.69 in. × 1.59 in.)
Cutout Dimensions	243.8 mm × 303.8 mm (9.60 in. × 11.96 in.)
Weight (Net, Gross)	2.7 kg, 4.9 kg (5.95 lb, 10.80 lb)

## NI TSM-1015

Dimensions	303.0 mm × 378.5 mm × 43.2 mm (11.93 in. × 14.90 in. × 1.70 in.)
Cutout Dimensions	284.6 mm × 360.1 mm (11.20 in. × 14.18 in.)
Weight (Net, Gross)	3.5 kg, 5.5 kg (7.72 lb, 12.13 lb)

## NI TSM-1017

Dimensions	341.4 mm × 408.4 mm × 49.3 mm (13.44 in. × 16.08 in. × 1.94 in.)
Cutout Dimensions	323.0 mm × 390.0 mm (12.72 in. × 15.35 in.)
Weight (Net, Gross)	4.4 kg, 7.1 kg (9.70 lb, 15.65 lb)

## Environmental

Ambient temperature	-20 °C to 60 °C
Storage temperature	-20 °C to 70 °C
Operating relative humidity	10% to 95%, noncondensing
Pollution Degree	2
Maximum altitude	2,000 m

Indoor use only.

## Certifications

- RoHS—All NI TSM-101x models comply with the Restriction of Hazardous materials (RoHS) Directive.
- IP 65—The front panels on all NI TSM-101x models have an ingress protection rating of 65 (IP 65). The front panels are protected from dust particles and water spray.

# Electromagnetic Compatibility

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This product meets the requirements of the following EMC standards for electrical equipment for measurement, control, and laboratory use:

- EN 55022 (CISPR 22): Class A emissions
- EN 55024 (CISPR 24): Immunity
- AS/NZS CISPR 22: Class A emissions
- FCC 47 CFR Part 15B: Class A emissions
- ICES-003: Class A emissions



**Note** For EMC declarations and certifications, and additional information, refer to the [Online Product Certification](#) section.

## Safety

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This product is designed to meet the requirements of the following standards of safety for information technology equipment:

- EC 60950-1, EN 60950-1

## CE Compliance

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All NI TSM-101x models meet the essential requirements of applicable European Directives as follows:

- 2006/95/EC; Low-Voltage Directive (safety)
- 2004/108/EC; Electromagnetic Compatibility Directive (EMC)

## Online Product Certification

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Refer to the product Declaration of Conformity (DoC) for additional regulatory compliance information. To obtain product certifications and the DoC for this product, visit [ni.com/certification](https://ni.com/certification), search by model number or product line, and click the appropriate link in the Certification column.

## Environmental Management

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NI is committed to designing and manufacturing products in an environmentally responsible manner. NI recognizes that eliminating certain hazardous substances from our products is beneficial to the environment and to NI customers.

For additional environmental information, refer to the *Minimize Our Environmental Impact* web page at [ni.com/environment](https://ni.com/environment). This page contains the environmental regulations and

directives with which NI complies, as well as other environmental information not included in this document.

## Waste Electrical and Electronic Equipment (WEEE)



**EU Customers** At the end of the product life cycle, all NI products must be disposed of according to local laws and regulations. For more information about how to recycle NI products in your region, visit [ni.com/environment/weee](https://ni.com/environment/weee).

## 电子信息产品污染控制管理办法（中国 RoHS）



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