2711 PanelView Standard Terminals

IMPORTANT

This document contains important certification information for the PanelView Standard terminals. The product is marked with all required approvals and certifications.

This document is **not intended for installing, configuring, or operating equipment**. Do not install the product until you have first read the appropriate product installation instructions under Important Resources. For product installation instructions, specifications, user manuals, and other product information use these resources:

- To view or download product publications, go to http://literature.rockwellautomation.com and search documents under Operator Interface.
- To order paper copies of technical documentation, contact your local Rockwell Automation distributor or sales representative.
- For declarations of conformity, certificates, and other certification details, visit the Product Certifications page at http://www.ab.com.

Important User Information

Solid state equipment has operational characteristics that differ from electromechanical equipment. Safety Guidelines for the Application, Installation, and Maintenance of Solid State Controls, publication SGI-1.1 describes important differences between solid-state equipment and hard-wired electromechanical devices. Because of these differences and the wide variety of uses for solid state equipment, all persons responsible for applying this equipment must satisfy themselves that each intended application of this equipment is acceptable.

In no event will Rockwell Automation, Inc. be responsible or liable for indirect or consequential damages resulting from the use or application of this equipment.

This document uses these symbols to make you aware of safety considerations.

WARNING 	Identifies information about practices or circumstances that can cause an explosion in a hazardous environment, which may lead to personal injury or death, property damage, or economic loss.	**ATTENTION** 	Identifies information about practices or circumstances that can lead to personal injury or death, property damage, or economic loss. Attentions help you identify a hazard, avoid a hazard and recognize the consequences.

Important Resources

Resource
Safety Guidelines for the Application, Installation, and Maintenance of Solid State Controls, publication SGI-1.1
PanelView Standard Operator Terminals User Manual, publication 2711-UM014
PanelView 300 Keypad Terminals Installation Instructions, publication 2711-IN027
PanelView 300 Micro Terminals Installation Instructions, publication 2711-IN008
PanelView 550 Keypad and Keypad/Touch-screen Terminals Installation Instructions, publication 2711-IN009
PanelView 550/600 Touch Screen Terminals Installation Instructions, publication 2711-IN034
PanelView 600 Keypad and Keypad/Touch-screen Terminals Installation Instructions, publication 2711-IN010
PanelView 1000 Keypad and Touch-screen Terminals Installation Instructions, publication 2711-IN036

Product Ratings

Attribute	Value
Temperature, operating	0…55 °C (32…131 °F)
Enclosure rating	NEMA Type 12, 13, 4X (indoor only) and IEC IP54, IP65 applies only when the terminal is mounted in an enclosure with the equivalent rating
Mounting torque for panel installation	1.13 N•m (10 lb•in)

Wiring Specifications

Power Wiring

PanelView Standard Terminal Type	Input Voltage(1)	Wire Type	Single-Wire Size Min…Max	Dual-Wire Size Min…Max	Terminal Screw Torque
550, 600, 1000	85…264V AC	Cu 90 °C (194 °F) (2) stranded or solid	0.3… 3.3 mm² 22…12 AWG	0.3… 2.1 mm² 22…14 AWG	0.57 N•m (5 lb•in)
300, 550T, 600, 600T, 1000	18…32V DC	Cu 90 °C (194 °F) (2) stranded or solid	22…14 AWG 0.3… 2.1 mm²	0.3… 1.3 mm² 22…16 AWG	0.57 N•m (5 lb•in)
300 Micro	11…30V DC				
550	18…30V DC				

(1) See label on product for power and current requirements.
(2) Minimum required insulation temperature rating.

Protective Earth/Functional Earth Wiring

Protective Earth/Functional Earth	Input Power	Wire Type	Wire Size	Terminal Screw Torque
Protective earth ⏚	AC	Cu 90 °C (194 °F) [2] stranded or solid	2.1…3.3 mm² 14…12 AWG	0.57 N•m (5 lb•in)
Functional earth ⏚	DC			
Functional earth ground screw [1] ⏚		Cu 90 °C (194 °F) stranded or solid [2]	2.1…5.3 mm² 14…10 AWG	1.13…1.36 N•m (10…12 lb•in)

(1) The functional earth connection is on the back of the product for the 600 keypad and keypad/touch, and the 1000 terminals.
(2) Minimum required insulation temperature rating.

North American Hazardous Location Approval

The following information applies when operating this equipment in hazardous locations.	**Les informations suivantes s'appliquent pour les équipements utilisés dans des environnements dangereux.**
When marked, this product is suitable for use in Class I Division 2 Groups A, B, C, D, Class II Division 2 Groups F, G; Class III hazardous locations and nonhazardous locations only. Each product is supplied with markings on the rating nameplate indicating the hazardous location temperature code. When combining products within a system, the most adverse temperature code (lowest "T" number) may be used to help determine the overall temperature code of the system. Combinations of equipment in your system are subject to investigation by the local Authority Having Jurisdiction at the time of installation.	Les produits marqués "CL I, DIV 2, GP A, B, C, D" ne conviennent qu'à une utilisation en environnements de Classe I Division 2 Groupes A, B, C, D dangereux et non dangereux. Chaque produit est livré avec des marquages sur sa plaque d'identification qui indiquent le code de température pour les environnements dangereux. Lorsque plusieurs produits sont combinés dans un système, le code de température le plus défavorable (code de température le plus faible) peut être utilisé pour déterminer le code de température global du système. Les combinaisons d'équipements dans le système sont sujettes à inspection par les autorités locales qualifiées au moment de l'installation.
WARNING **EXPLOSION HAZARD -** • Do not disconnect equipment unless power has been removed or the area is known to be nonhazardous. • Do not disconnect connections to this equipment unless power has been removed or the area is known to be nonhazardous. • Substitution of components may impair suitability for Class I, Division 2. • Peripheral equipment must be suitable for the location in which it is used. • The battery or real-time clock module in this product must only be changed in an area known to be nonhazardous. • All wiring must be in accordance with Class I, Division 2, Class II, Division 2, or Class III, Division 2 wiring methods of Articles 501, 502 or 503, as appropriate, of the National Electrical Code and/or in accordance with Section 18-1J2 of the Canadian Electrical Code, and in accordance with the authority having jurisdiction.	**AVERTISSEMENT** **RISQUE D'EXPLOSION –** • Couper le courant ou s'assurer que l'environnement est classé non dangereux avant de débrancher l'équipement. • Couper le courant ou s'assurer que l'environnement est classé non dangereux avant de débrancher les connecteurs. • La substitution de composants peut rendre cet équipement inadapté à une utilisation en environnement de Classe I, Division 2 • Les équipements périphériques doivent s'adapter à l'environnement dans lequel ils sont utilisés. • La batterie ou le module de l'horloge en temps réel de ce produit doit être changé(e) uniquement dans un environnement classé sans risque. • Tous les systèmes de câblage doivent être de Classe I, Division 2, Classe II, Division 2, ou Classe III, Division 2, conformément aux méthodes de câblage indiquées dans les Articles 501, 502 ou 503 du National Electrical Code (Code Electrique National) et/ou conformément à la Section 18-1J2 du Canadian Electrical Code (Code Electrique Canadien), et en fonction de l'autorité de jurisdiction.

Environment and Enclosure Information

ATTENTION

This equipment is intended for use in a Pollution Degree 2 industrial environment, in overvoltage Category II applications (as defined in IEC 60664-1), at altitudes up to 2000 m (6561 ft) without derating.

The terminals are intended for use with programmable logic controllers. Terminals that are AC powered must be connected to the secondary of an isolating transformer. Terminals that are DC Class 2 powered may be supplied from an isolated DC source when used with the indicated fuse kit.

This equipment is considered Group 1, Class A industrial equipment according to IEC CISPR 11. Without appropriate precautions, there may be difficulties ensuring electromagnetic compatibility in residential and other environments due to conducted or radiated disturbances.

This equipment is supplied as open-type equipment. It must be mounted within an enclosure that is suitably designed for those specific environmental conditions that will be present and appropriately designed to prevent personal injury resulting from accessibility to live parts. The interior of the enclosure must be accessible only by the use of a tool. The terminals meet specified NEMA Type and IEC ratings only when mounted in a panel or enclosure with the equivalent rating. Subsequent sections of this publication may contain additional information regarding specific enclosure type ratings that are required to comply with certain product safety certifications.

In addition to this publication, see:

- Industrial Automation Wiring and Grounding Guidelines, publication 1770-4.1, for additional installation requirements.
- NEMA Standards 250 and IEC 60529, as applicable, for explanations of the degrees of protection provided by different types of enclosure.

Battery Removal

This product contains a hermetically-sealed lithium battery which may need to be replaced during the life of the product. At the end of its life, the battery contained in this product should be collected separately from any unsorted municipal waste. The collection and recycling of batteries helps protect the environment and contributes to the conservation of natural resources as valuable materials are recovered.

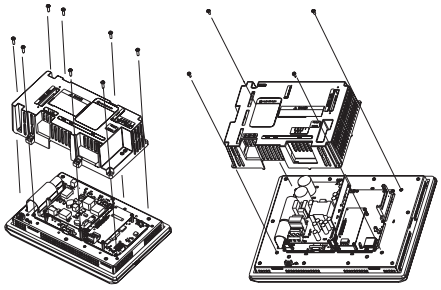
WARNING

There is a danger of explosion if the lithium battery or real-time clock module in these products is incorrectly replaced. Replace the battery only with the indicated type. Do not replace the battery or real-time clock module unless power has been removed and the area is known to be nonhazardous.

Do not dispose of the lithium battery or real-time clock module in a fire or incinerator. Dispose of the battery in accordance with local disposal regulations. For safety information on handling lithium batteries, including handling and disposal of leaking batteries, see Guidelines for Handling Lithium Batteries, publication AG 5.4.

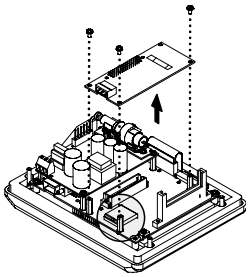
Follow these steps to remove the battery.

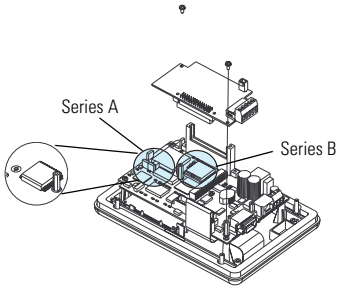
1. Disconnect power from the terminal.
2. Detach the back cover.



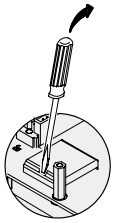
3. Remove the communication card, if necessary, to access the battery.

   The 550 keypad, keypad/touch and 1000 terminals do not require you to remove a communication card.

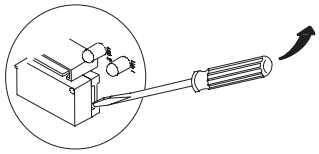




4. Disconnect the battery.

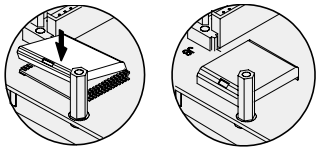


Most terminals
(battery location varies)

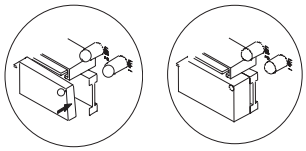


550 keypad and keypad/touch
(older versions)

5. Insert the new battery using only the recommended catalog number.



Most terminals



550 keypad and keypad/touch
(older versions)

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