

SPECIFICATIONS

MTS TECHNICAL SPECIFICATIONS		
Class	Front Connected	Back Connected
Brief Description	Metering Test Switch with Stud Terminals	Metering Test Switch with Stud Terminals
Typical Applications	Metering Sub-Station Monitoring Relay Panels	Metering Sub-Station Monitoring Relay Panels
Number of Poles Available	1 - 52 Poles	1 - 52 Poles
Certifications	UL, cUL UL File E75355	UL, cUL UL File E75355
Voltage Rating	600VAC	600VAC
Current Rating	30A	30A
Recommended Wire Size Range	Min 14awg / Max 10awg	Min 14awg / Max 10awg
Recommended Wire Lug Size	#10	#10
Stud Thread	10-32	10-32
Recommended Torque for Stud Wiring Connections	Max 25in/lbs	Max 25in/lbs
#25A - Fuse Clip Dimensions - 250 VAC 30 AMP *Fuse not included	1/4" Diameter 1 1/4" Length	1/4" Diameter 1 1/4" Length
#25 Fuse Clip Dimensions - 600 VAC 30 AMP *Fuse not included	9/32" Diameter 1 1/2" Length	9/32" Diameter 1 1/2" Length
Ambient Temperature	104° F (40° C)	104° F (40° C)

Understanding MTS Part Numbers				
1	2	3	4	5
Covers (Optional)	Front-Connected Part Number	Number of Poles	Arrangement Designator	Back-Connected
FRONT-CONNECTED C1 - Slotted, Opaque C3 - Slotted, Clear BACK-CONNECTED C2 - Solid, Opaque C4 - Solid, Clear NOTE: Covers can ONLY be installed by the factory	2	01 - 52	This is the letter and/or number designation that has been assigned for a particular arrangement See catalog page 81, or visit our website at www.statesproducts.com for arrangement options	Add a -B for back-connection Back-connected switches automatically come with a cover. Please specify either C2 = nonslotted, opaque or C4 = nonslotted, clear NOTE: Covers are available up to 30 poles. *Back-connection is available on higher poles if desired
*Switches excluding one of the cover designations above will be supplied front-connected without a cover				

EXAMPLES

2	10	-	A
2	3		4

Part No. 210-A

Front-connected 10 pole test switch, no cover.

C3	-	2	06	-	A
1		2	3		4

Part No. C3-206-A

Front-connected 6 pole test switch, with a clear slotted front-connected cover.

C4	-	2	12	-	E	-	B
1		2	3		4		5

Part No. C4-212-E-B

Back-connected 12 pole test switch, with a clear solid back-connected cover.


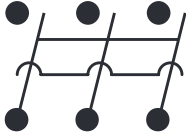



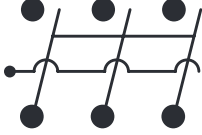


2	48	-	A	-	B
2	3		4		5

Part No. 248-A-B

Back-connected 48 pole test switch, no cover.

MTS SWITCH ELEMENTS

MTS & JTS
Test Switches

<div>1</div> <div></div> <div>Single-Pole Potential</div>	<div>2</div> <div></div> <div>Ganged Double-Pole Potential</div>	<div>16</div> <div></div> <div>Ganged Three-Pole Potential</div>
<div>13</div> <div></div> <div>Ganged Two-Pole Short-Circuiting Current Assembly</div>	<div>17</div> <div></div> <div>Ganged Three-Pole Short-Circuiting Current Assembly</div>	<div>9</div> <div></div> <div>Current Test Jack</div>
<div>6</div> <div></div> <div>Short-Circuiting Assembly With Right-Hand Common Bar</div>	<div>10</div> <div></div> <div>Right-Hand Current Assembly Consists of Test Jack and Short-Circuiting Current Assemblies</div>	<div>20</div> <div></div> <div>Ganged Three-Pole Short-Circuiting Current Assembly, Right Extension</div>
<div>5</div> <div></div> <div>Short-Circuiting Assembly With Left-Hand Common Bar</div>	<div>11</div> <div></div> <div>Left-Hand Current Assembly Consists of Test Jack and Short-Circuiting Current Assemblies</div>	<div>19</div> <div></div> <div>Ganged Three-Pole Short-Circuiting Current Assembly, Left Extension</div>
<div>90</div> <div></div> <div>Right-Hand Short-Circuiting Assembly Ending at a Terminal</div>	<div>91</div> <div></div> <div>Left-Hand Short-Circuiting Assembly Ending at a Terminal</div>	<div>24</div> <div></div> <div>Through Bar</div>
<div>25</div> <div></div> <div>600-Volt Fuse Holder</div>	<div>25A</div> <div></div> <div>250-Volt Fuse Holder</div>	<div>26</div> <div></div> <div>Blank Space</div>

NOTES:

1. Barriers are provided between poles of opposite polarity.

2. **Potential** handles are **red** and **current** handles are **black** unless otherwise specified.

3. Specify adjacent handles to be ganged (yoked) if desired.

4. Arrange elements left to right, front view.
5. Element No. 25A accepts standard cartridge fuses rated 250 VAC 30 AMP. **Fuse not included.** Fuse dimensions must be 1/4" diameter and 1 1/4" in length.

6. Element No. 25 accepts standard cartridge fuses rated 600 VAC 30 AMP. **Fuse not included.** Fuse dimensions must be 9/32" diameter and 1 1/2" in length.

ORDERING INFORMATION

The part numbers under the arrangements beginning on page 81 are for front-connected switches without covers. These same numbers are also used as the basis for ordering back-connected.

The part numbers are three digits followed by a letter or letter and number combination.

Example: 203-A

1/1/1



The slashes "/" in the arrangements represent barriers that are installed standard between any adjoining elements of opposite polarity.

203-A

SPECIAL ORDERS

Special Arrangements: These can be made of any combination of potential or current elements, with a maximum of 52 poles. For more information, refer to the following example and illustrations on page 75.

To order a customized, 10-pole, back-connected switch with a clear, back-connected cover, specify:

Switch Type: STATES Type MTS
No. of poles: 10-pole test switch
***Arrangement:** 10/2/11/1/16
Style: Back-connected
Cover: Clear, back-connected

Handle Colors: The standard colors for handles are **red** for **potential** and **black** for **current**. Handles are also available in other colors.

***Arrangements should be given as front view of switch, left to right, using the elements listed on page 72.**

To specify non-standard colors, add to the element number the appropriate color code:

Color	Color Code	Color	Color Code
Black	k	Red	r
Blue	b	White	w
Green	g	Yellow	y
Orange	e		

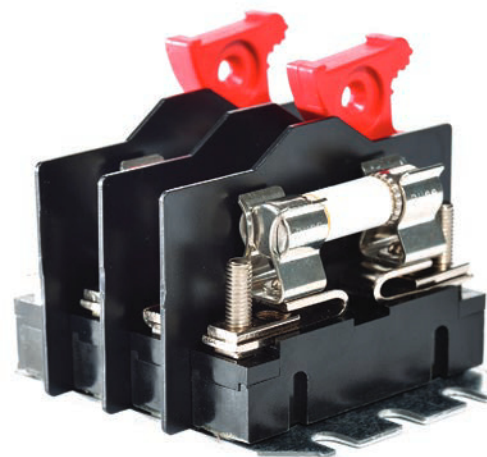
To order a switch with handles in non-standard colors, you must specify the arrangement with colors indicated. For example, to order a 10-pole switch with special handle colors, specify: **Arrangement:** 10/10r/10g/10w/1k/1k

Ganged handles: You may specify a yoking bar to gang adjacent handles. For example, to order a switch with the adjacent potentials ganged, you must specify: **Gang all potentials**

Ganged handles are represented with the number (#) sign.

Example: #1/1/1/1# (all handles in between the "#" are ganged together)

Hinge position: The "U" in an arrangement (next to an element) indicates the hinge is positioned upside down from the typical arrangement.



MTS shown with fuse holder (Fuse not included)

OPTIONAL ACCESSORIES



Socket Wrench and Insert

To speed installation of the terminal nuts on States Test Switches, the socket wrench (Part No. 16028) and 3/8 inch insert (Part No. 16027) are available. Pictures available in the Testing Accessories section on page 134.

Also available are the 5/16 inch insert (Part No. 16025) for use in installing the terminal nuts on STATES Type Terminal Blocks and States Type MTS Test Switches.

The screwdriver attachment (Part No. 16022) makes this wrench your complete meter installation tool.

Dual Circuit Plug

By inserting the STATES Dual Circuit Plug (Part No. 15000) into the test jack, safe measurement can be made of current transformer secondary current.



STATES recommends the use of Part No. 15000 on all of its' test switches.

Use of any other manufacturer's plug could damage the switch and may void the warranty.

Jumper Strips

Part No. TBT168

(The TBT168, which is 3ft long, can be cut to the required length by the user)

This nickel-plated jumper strip is made specially for the STATES Type NT & ZWM Terminal Blocks and the STATES Type MTS Test Switches.



See Testing Accessories on page 128.