Introduction

**Real-View Mimic Panel** is a remote operating station for switchgear which places control in a safer location.

An arc flash hazard exists from high energy equipment such as switchgear and needs safety precautions to minimize the risk to the operator.

The mimic panel becomes the operations center for control of the switchgear.

Your Safety Center

*Convenience does play a role in our willingness to follow a safety plan.*

Doing more of the breaker operations and Lockout / Tagout preparations outside the arc flash zone makes safety more convenient.

Features like racking the breaker from the mimic panel, full one-line detail for troubleshooting, LOTO instructions, and arc flash maintenance mode switch go beyond a typical control station.

Each Real-View Mimic Panel has a drawing key reference with notes to add your key safety details like ground points or system clarifications.

An arc flash mitigation solution from:

[Switchgear Resources, Inc.](http://www.switchgearresources.com)

Phone: 682-777-5455

E-mail: info@switchgearresources.com

[www.switchgearresources.com](http://www.switchgearresources.com)
NEC 490.48B states that a permanent single-line diagram shall clearly identify:
Interlocks, isolation means, ALL sources of voltage under normal or emergency conditions.

Real-View Mimic Panel front panel IS this single-line diagram and shows:
All sources as open, closed or isolated
Which breakers are interlocked
Safety ground connection points
Protection scheme, CT polarity, even your full one-line diagram

Real-View Mimic Panel adds a drawing quick reference to show interlock detail or source clarifications. Even other control sources:
- UPS, DC control bus
- PT, CPT sources

### PERMANENT — Encapsulation

<table>
<thead>
<tr>
<th>Museum Grade Lucite Lux front acrylic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diagram is a film deposit (print-like process) inside the sealed acrylic</td>
</tr>
<tr>
<td>Color film is a multi-layered UV-cured acrylic derivative</td>
</tr>
<tr>
<td>An additional layer 1/16” clear Acrylic is bonded for encapsulation</td>
</tr>
<tr>
<td>RESULT- Alcohol, oil, &amp; water resistant, 98% UV protected</td>
</tr>
</tbody>
</table>

Real-View Mimic Panel has a unique look that shows the outline of the switchgear front view in gray with the section numbers in the background, then superimposes the one-line symbols over the matching cell.

![Outline of switchgear - Front View](image)

**SUBSTATION 25**

125VDC CONTROL SOURCE - BATT. RM.
120VAC HEATER SOURCE - DP 24-12

- **K** - KEY INTERLOCKED (LIMITS CONNECTING 2 SOURCES)
- **A** - AUTO TRANSFER SCHEME
- **G** - GROUNDING PROVISION
- **S** - ARC FLASH SENSOR - AF PROT. RELAY

Phone: 682-777-5455
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www.switchgearresources.com
Substation version

SHOW THE ENTIRE SUBSTATION
Neutral Grounding System, transformer protection.

ADD ANNUNCIATOR functions for transformers, fan, temperature, sudden pressure, etc.

ADD IEC 61850 RTU functionality for status indication from other relays or communications.

More Options

MV MCC as a part of the line up
LV Switchgear as 4 high arrangement
TRIPPED indication
Show Optical sensing protection scheme or other trip means
Show the operating mode — even Bypass.

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Benefits

- Safer operation of the switchgear
- **Faster operating time** through instant recognition of which breaker switch to operate.
- Easier troubleshooting with full single-line protection scheme details.
- Compact design—reduces space
- Better visibility of backfeed potential or other voltage sources
- Always ready and visible - even during a complete outage
- Better protection against unintended operation or trip

**COMPACT size** — Only 23” tall

Width is according to number of sections

14 sections in a 60” wide Panel

TWO rows for 28 sections

Larger panels? - contact us

Real-View Mimic Panel

For safer remote operation of switchgear

<table>
<thead>
<tr>
<th>Add Your system safety needs</th>
<th>SRi standard features</th>
</tr>
</thead>
<tbody>
<tr>
<td>Add Your LOTO Procedure</td>
<td>Built to C37.21 Control Switchboard Standard</td>
</tr>
<tr>
<td>Identify Upstream sources</td>
<td>ABB or Electroswitch control switches</td>
</tr>
<tr>
<td>Where to turn off heater power, etc.</td>
<td>16mm LED lights 100K hrs re-lampable</td>
</tr>
<tr>
<td>Notate if Utility must isolate source</td>
<td>No sticky block wire anchors</td>
</tr>
<tr>
<td>Your grounding points</td>
<td>NEMA Enclosures 1A or 12,3R w/ canopy</td>
</tr>
<tr>
<td>TRIPPED indication</td>
<td>600V NEMA style “screw “ Terminal Blocks (accepts ring or fork lugs)</td>
</tr>
<tr>
<td>Mechanical or electrical Interlocks</td>
<td>Door prop releases to open 180°</td>
</tr>
<tr>
<td>Add Protective relays (larger panel)</td>
<td>Wire duct for customer wiring</td>
</tr>
<tr>
<td>Ethernet / Transfer -trip systems</td>
<td>ANSI 61 gray, white subpanel / door</td>
</tr>
<tr>
<td>Auto / manual control switch</td>
<td>Inside TB’s matches front section layout</td>
</tr>
<tr>
<td>Energy storage or capacitor banks</td>
<td>Aluminum lightweight door</td>
</tr>
<tr>
<td>Backfeed sources like UPS</td>
<td>Printed sleeve wire markers</td>
</tr>
<tr>
<td></td>
<td>More of system one-line than any other</td>
</tr>
</tbody>
</table>

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