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WinCC Unified

# SIMATIC HMI

## Unified Basic Panels

[www.siemens.com/unified-basic-panels](http://www.siemens.com/unified-basic-panels)

# SIMATIC HMI Unified Basic Panels

## General information

**WinCC Unified Updates may also include a number of functional news.**

Please make sure to check the provided detailed readme documents, which are available for each update:

[WinCC Unified V19 Delivery Release: SIOS \(109820987\)](#)



### Please note

- WinCC Unified technical slides, for a general functional overview of Panel- and PC-based systems
- WinCC Unified Architecture slides that show typical configurations and use cases in detail!



Detailed information is available at: [WinCC Unified \(Highspot\)](#)

# SIMATIC HMI Unified Basic Panels

Leading the way through innovation

## Unified Basic Making a Panel a Compelling Argument

- Increased performance and system limits
- Smooth operation with Multi-Touch (2-hand) and gesture recognition
- Design and ease of use:
  - Static and dynamic SVG graphics
  - Extended functionality of controls
  - Image Window Technology
  - Dynamization of objects
- Scripting with JavaScript



# SIMATIC HMI Unified Basic Panels Portfolio

## Basic Panels



## Unified Basic Panels

4 Devices (multi-touch)



# SIMATIC HMI Unified Basic Panels

Multi-Touch from 4" to 12"



**MTP 400**

800 x 480  
4.3"



**MTP 700**

800 x 480  
7"



**MTP 1000**

1,280 x 800  
10.1"



**MTP 1200**

1,280 x 800  
12.1"

(MTP = Multi-Touch Panel)



The Panel firmware image has to be **downloaded separately**:  
[Download Image File at \(SIOS\) and use cases in detail!](#)

# SIMATIC HMI Unified Basic Panels

## Display information<sup>1</sup>



**MTP 400**



**MTP 700**



**MTP 1000**



**MTP 1200**

	<b>MTP 400</b>	<b>MTP 700</b>	<b>MTP 1000</b>	<b>MTP 1200</b>
<b>Resolution</b>	800x480	800x480	1280x800	1280x800
<b>Diagonal</b>	4.3"	7"	10.1"	12.1"
<b>PPI (Points per inch)</b>	217	133	149	125
<b>Aspect ratio</b>	15:9	15:9	16:10	16:10
<b>Viewing Angle</b>	>150°	> 150°	> 150°	> 150°
<b>Brightness (cd)</b>	min 250	min 250	min 250	min 250
<b>MTBF (hours)</b>	Min 20,000	Min 20,000	Min 20,000	Min 20,000

<sup>1</sup> This data is not included in the technical data of Siemens Industry Online Support, as the values can vary in the event of a change of supplier.

# SIMATIC HMI Unified Basic Panels

## Resolution and Installation Compatibility

### Basic Panel



4.3"

480 x 272



7.0"

800 x 480



9"

800 x 480



12"

1,280 x 800

### Unified Basic Panel



4.3"

800 x 480



7.0"

800 x 480



Enlarge cutout

9" → 10.1"

1,280 x 800



12.1"

1,280 x 800

1 Available after product release



# SIMATIC HMI Unified Basic Panels

## Higher Performance

	Basic 2 <sup>nd</sup> Gen. Panel	Unified Basic Panel
<b>PLC Connections</b>	4	8
<b>Tags</b>	800	1,000
<b>Alarms</b>	430	2,100
<b>Archive</b>	2	10
<b>Logging Tags</b>	10	50
<b>Scripts</b>	--	50
<b>Trends</b>	35	35
<b>Trends per Trend Control</b>	4	5
<b>Text/Graphics List</b>	300/100	300/100
<b>Pictures</b>		
• Objects per image	600	600
• Tags per image	100	300



**Increased quantity structure  
compared to Basic 2<sup>nd</sup> Gen Panel**

**Java Scripting**

**Much higher resolution**

# SIMATIC HMI Unified Basic Panels – Optimized user-friendliness through Multi-touch gestures

## Intuitive operation for industrial applications

- Ease of use comparable to smartphones
- Modern design with new robust, tempered glass front
- Operation with glove
- Glass front with anti-reflective layer for brilliant display and very good legibility
- Detection of operating errors, e.g., back of the hand
- High electromagnetic compatibility (EMC)

## Gesture recognition and multi-touch

- **Zoom and moveable Zoom Range** for details in curve display, web control and document display
- Scroll in lists, e.g., notification display, text lists, documents
- **2-hand operation**



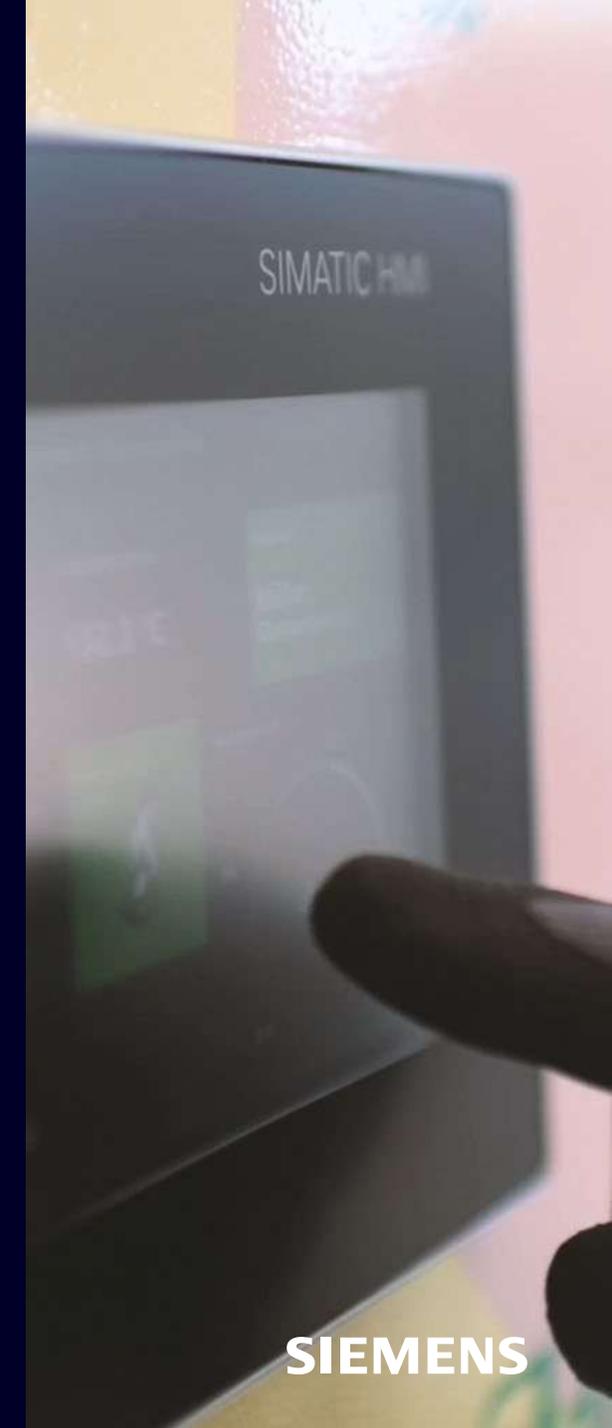
# SIMATIC HMI Unified Basic Panels

## Service with glove

### Support for commercially available work gloves

UVEX approved gloves ([Link](#)):

	Glove model	Norm	Area of application	Properties	Standard touch application	Complex touch application (e.g., Zoom)
	uvex phynomic XS uvex phynomic XS-W	EN 388: Cut protection level 1	Fine and final assembly work	Breathable impregnation Mechanical protection	✓	✓
	uvex rubipor XS	EN 388: Cut protection level 1	Fine and final assembly work	Breathable impregnation Mechanical protection	✓	✓
	uvex profi ergo	EN 388: Cut protection level 1	Oily applications	Partially coated Impermeable to oils and water	✓	
	uvex C500 foam uvex C300 foam	EN 388: Cut protection levels 5 and 3 respectively	Handling sharp parts	Breathable Cut protection	✓	✓
	uvex rubiflex S (blue)	EN 374	Work with chemicals paints, etc.	Fully coated Impermeable to chemicals, oils and water	✓	
	uvex u-fit lite	EN 374	Laboratories, food processing and medicine	Disposable safety gloves	✓	



# SIMATIC HMI Unified Basic Panels Connectivity

## 1 port Ethernet

1 IP address 100 Mbit/1 Gbit

## 2 x USB 2.0

Support von USB Hardware

## Reset Button

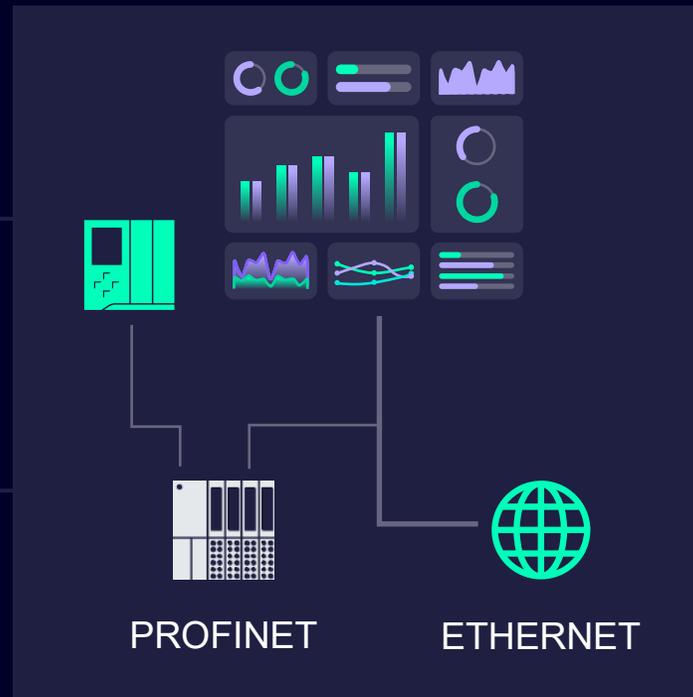
Device in "Reset mode"



# SIMATIC HMI Unified Basic Panels Interface

## Full connectivity via Ethernet interface

- S7/S7+ Communication
- PN Basic Services  
(Assign name, IP, ...)
- Project Download above PN



### Gigabit Interface

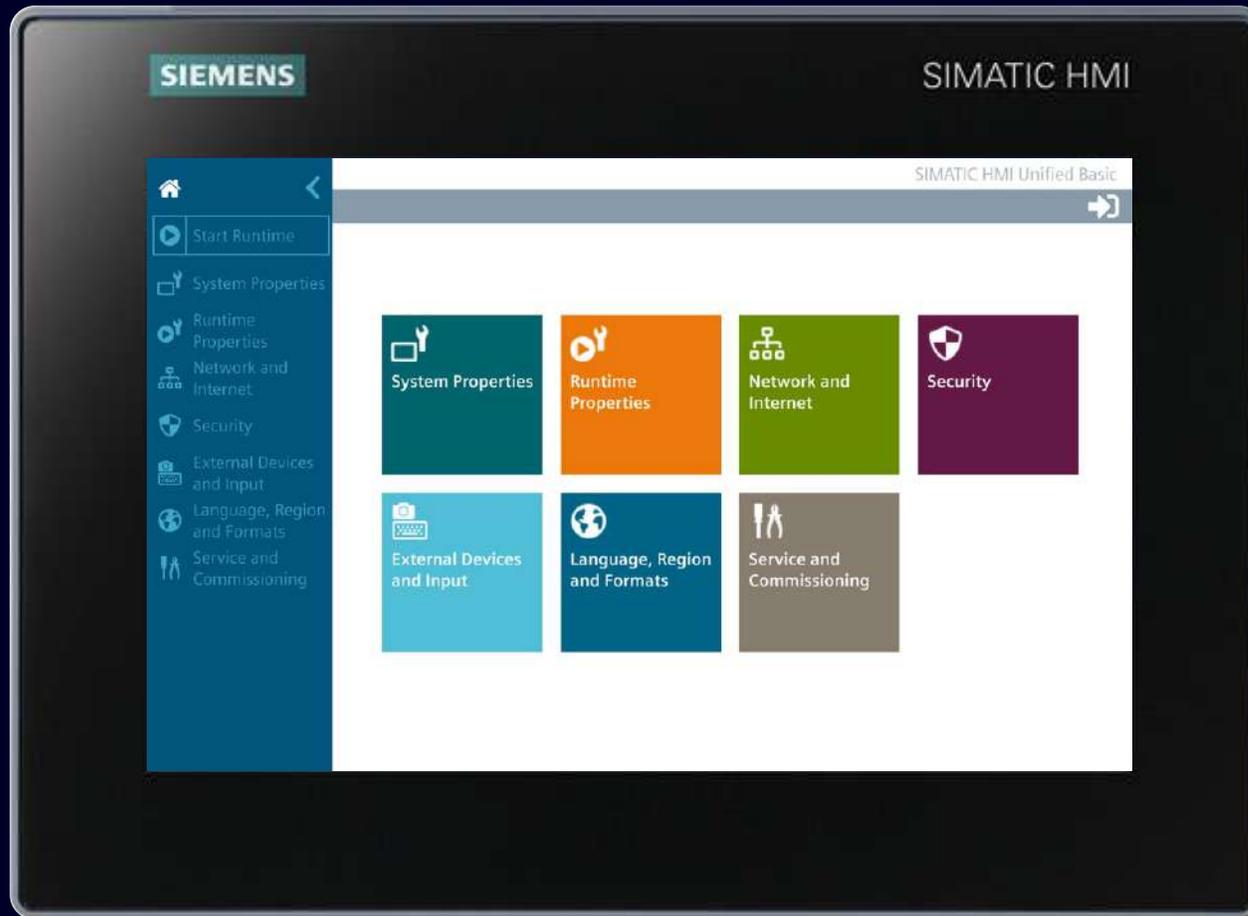
1 Ports

- Project download and firmware update above Ethernet
- Network Access
- Integrated 3<sup>rd</sup> Party PLC  
(e.g., Mitsubishi, Allen-Bradley)  
or via CSP)

[SIOS \(109779920\)](#)

# SIMATIC HMI Unified Basic Panels

## Completely redesigned Control Panel

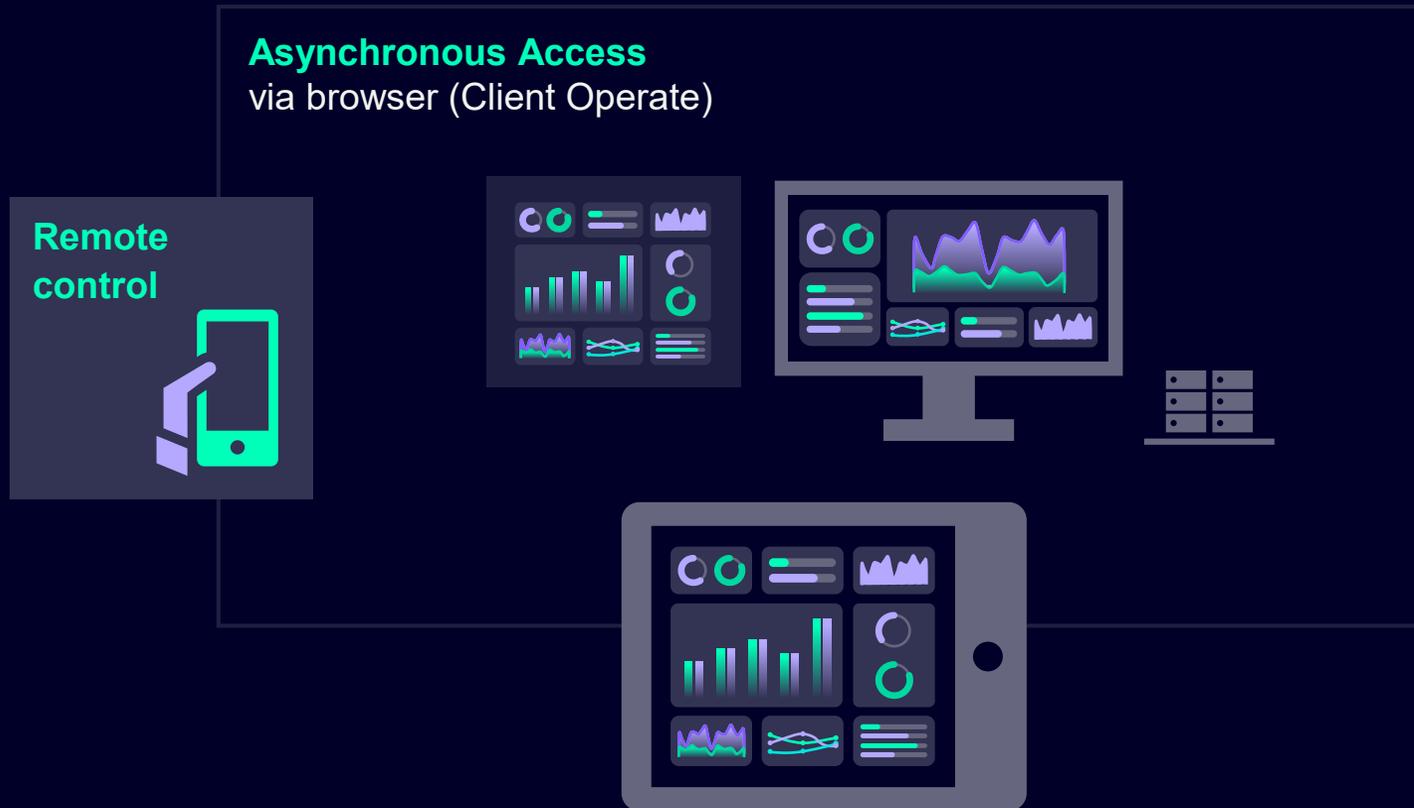


Modern design of the control panel  
**Optimized for touch devices**

The user only has access  
to the control panel  
**Not to the operating system**

# SIMATIC HMI Unified Basic Panels

## Remote control



**1x Client Operate included**

not extendable

# SIMATIC HMI Unified Basic Panels

## System architecture



# SIMATIC HMI Unified Basic Panels

## Security Integrated

### Disabling/Enabling Interfaces

- Mass storage (USB) via Control Panel
- Ethernet/PROFINET via Control Panel or RT Functions
- SNMP and Transfer via Control Panel

### Security Updates

- Firmware updates with TIA Portal or SIMATIC Automation Tool

### Device Security

- Runtime user management (username – password) also for the control panel
- Control panel instead of operating system GUI



#### More information:

Safety Guidelines for SIMATIC HMI Devices [SIOS 109481300](#)

# SIMATIC HMI Unified Basic Panels

## Accessories

### Input tools



#### Highlights:

- Ergonomic; replacement caps
- ALU black anodized type for widespread industrial usage
- Stainless steel type is suitable particularly for the food and beverages industry

[More information](#)



### Input devices and cables



#### Highlights:

- Plastic USB keyboard in IP68
- Stainless steel USB keyboard in IP65 equipped with IP67 USB 2.0 Connector

[More information about plastic keyboard](#)

[More information about stainless steel keyboard](#)

[Further accessories \(MALL\)](#)

[Additional information regarding HMI accessories](#)



### Protective films



#### Highlights:

- Protect the front from scratches
- Non-reflective
- Limited shatter protection
- Easy installation and replacement
- Antibacterial type available

[More information](#)



# SIMATIC HMI Unified Basic Panels

## New generation

### Device Replacement Concepts for

- Project and device replacement

Planned

→ **Guide to switching from Basic Panels on Unified Basic Panels**

- Transferring bulk data (e.g. tags) to Unified

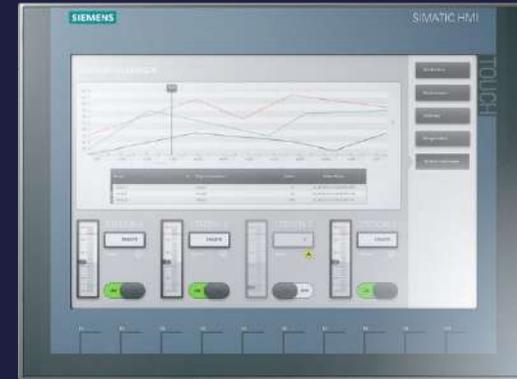
→ **“Data2Unified” TIA Portal Add-In**

[SIOS LINK](#)



Make your HMI a flagship that represents the overall quality of your machine or Solution.

[Modernize now](#)



# SIMATIC HMI Unified Basic Panels

## Simplified Device mounting

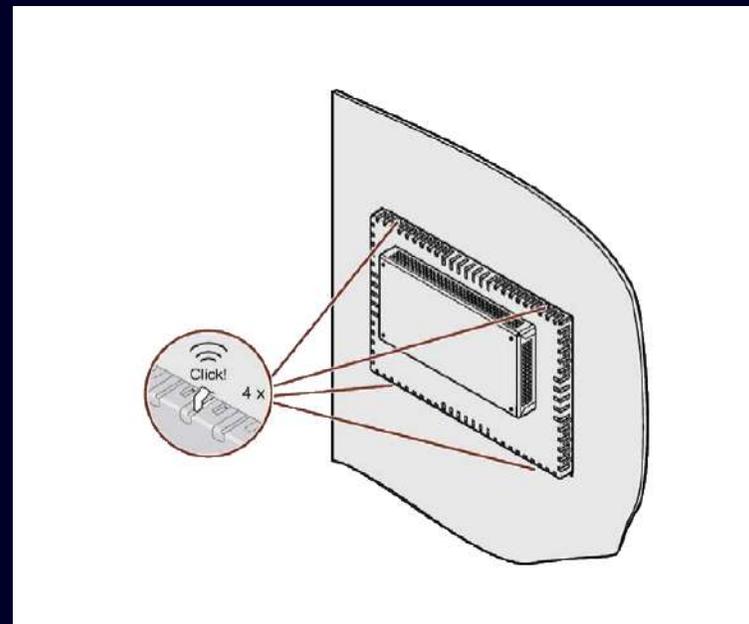
### Portrait or landscape installation

Configurable in Control Panel



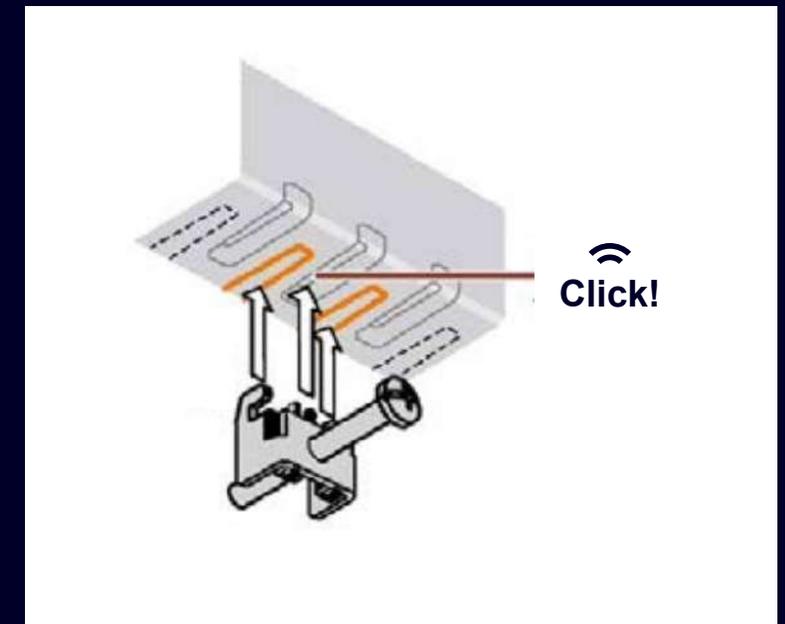
### One-man mounting

Thanks to integrated spring clamps



### Fixed mounting bracket

Thanks to innovative mounting clip



# SIMATIC HMI Unified Basic Panels

## Dimensions

	Dimensions					Dimensions			
	Basic Panels	Built-in cut-out W x H (mm)	Installation depth of the device (mm)	Front B x H (Mm)		Unified Basic Panels	Built-in cut-out W x H (mm)	Installation depth of the device (mm)	Front B x H (Mm)
<b>KTP400</b>	123 x 99	33	141 x 116	<b>MTP400</b>	123 x 99	36	140 x 116		
<b>KTP700</b>	197 x 141	39	214 x 158	<b>MTP700</b>	197 x 141	36	214 x 158		
<b>KTP900</b>	251 x 166	55	267 x 182	<b>MTP1000</b>	264 x 189	55	280 x 205		
<b>KTP1200</b>	310 x 221	60	330 x 245	<b>MTP1200</b>	310 x 221	55	326 x 237		



## OUR LOCATIONS

### National footprint with strategic local stockholdings.

APS Industrial is headquartered in Melbourne and in addition has a national network of offices in Adelaide, Perth, Sydney, Brisbane and Tasmania supported by strategic local stockholdings and expert technical and application knowledge.

[apsindustrial.com.au](https://www.apsindustrial.com.au)

### CONNECT WITH US



### MELBOURNE

5-7 Corporate Ave,  
Rowville, Melbourne VIC 3178

Ph: (03) 8514 3500  
Sales: 1300 309 303  
Email: [vic@apsindustrial.com.au](mailto:vic@apsindustrial.com.au)

### SYDNEY

Unit P1, 10-16 South Street  
Rydalmere, Sydney NSW 2116

Ph: (02) 8898 6200  
Sales: 1300 309 303  
Email: [nsw@apsindustrial.com.au](mailto:nsw@apsindustrial.com.au)

### BRISBANE

49 Borthwick Avenue,  
Murarrie, Brisbane, QLD, 4172

Ph: (07) 3063 3100  
Sales: 1300 309 303  
Email: [qld@apsindustrial.com.au](mailto:qld@apsindustrial.com.au)

### ADELAIDE

159-163 Caulfield Ave,  
Clarence Gardens SA 5039

Ph: (08) 8111 5100  
Sales: 1300 309 303  
Email: [sa@apsindustrial.com.au](mailto:sa@apsindustrial.com.au)

### PERTH

5 Glyde Court, Malaga,  
Malaga, Perth WA 6090

Ph: (08) 6118 5300  
Sales: 1300 309 303  
Email: [wa@apsindustrial.com.au](mailto:wa@apsindustrial.com.au)

### HOBART

441A Macquarie Street,  
South Hobart, TAS, 7004

Sales: 1300 309 303  
Email: [tas@apsindustrial.com.au](mailto:tas@apsindustrial.com.au)