

## SNAP PAC SYSTEM ENCLOSURES

### Features

- > Sturdy enclosures provide protection and convenience for your SNAP PAC System
- > Just add the I/O modules and processor (brain or rack-mounted controller) needed for your application
- > Mounting rack and power supply are already wired
- > Easy to install and use



SNAP-IT-RM16 [OBSOLETE]

### DESCRIPTION

SNAP-IT enclosures make it easy to install Opto 22 I/O where you need it. With a choice of rack, panel, and wall mounting, these enclosures provide convenience and protection for your processor and I/O.

Each enclosure includes an I/O mounting rack and a power supply, already wired. You add the I/O processor, either a SNAP PAC R-series controller or a SNAP PAC Ethernet brain, and the SNAP input and output (I/O) modules needed for your application.

### Adding a Processor

For the processor, if you need programming capability, choose a SNAP PAC R-series programmable automation controller. The PAC Project Basic Software Suite is a free download from our website and provides full-featured control programming plus HMI (human-machine interface) development and runtime.

If you don't need programmability, choose a SNAP PAC Ethernet brain. These brains provide local intelligence and communication and can be used with a SNAP PAC controller, with an Allen-Bradley PLC or a Modbus/TCP system, or for PC-based control.

Controllers and brains communicate over a standard 10/100 Mbps wired Ethernet network. In some enclosures you can also use a Wired+Wireless™ model, which communicates over a wired Ethernet network, over an 802.11a, b, or g wireless LAN, or both ways simultaneously.

### Adding I/O

For I/O, you can choose the mix of analog, digital, and serial modules you require. Modules range from one to 32 points per module, and a wide variety of signal types is available. All SNAP I/O modules work with any SNAP PAC brain or R-series controller and all can be mixed in the same enclosure.

See the Products tab on the Opto 22 website ([www.opto22.com](http://www.opto22.com)) to choose your processor and I/O and to download the free PAC Project software.

### Enclosure Models

Three SNAP-IT enclosures are available:

**SNAP-IT-RM16 [Obsolete]**—This rack-mounted metal enclosure is a standard 3U box and can also be used as a tabletop unit. It holds one processor and up to 16 I/O modules. A typical application would be monitoring and controlling facilities and interior equipment.



### Part Numbers

Part	Description
SNAP-IT-RM16 <b>[Obsolete]</b>	<b>[Obsolete]</b> SNAP PAC System 16-module enclosure, metal, rack-mounted
SNAP-IT-PM12 <b>[Obsolete]</b>	<b>[Obsolete]</b> SNAP PAC System 12-module enclosure, NEMA 3R, metal, panel-mounted
SNAP-IT-WM4	SNAP PAC System 4-module enclosure, NEMA 4, 4X, 6; IP66, IP67; polycarbonate, wall-mounted
POWERCABLE-US	120 VAC power cord (United States) for the SNAP-IT-RM16
POWERCABLE-UK	240 VAC power cord (United Kingdom) for the SNAP-IT-RM16
POWERCABLE-INTL	240 VAC power cord (International) for the SNAP-IT-RM16



### SNAP-IT-PM12 [Obsolete]

This panel-mounted enclosure is a NEMA3R metal housing for mounting on interior or exterior walls or equipment. It holds one processor and up to 12 I/O modules and includes a 24 V loop power supply.

SNAP-IT-PM12 units are ideal for use in industrial environments, for example manufacturing and processing machinery, communication towers, tanks, and pipelines.



**SNAP-IT-WM4**—The NEMA 4/4X/6 wall-mounted WM4 is a sturdy polycarbonate industrial enclosure that holds one processor and up to four I/O modules. It includes a 24 V loop power supply.

The SNAP-IT-WM4 has a transparent cover. It is a handy size for small areas and mounts on any wall.

## SPECIFICATIONS

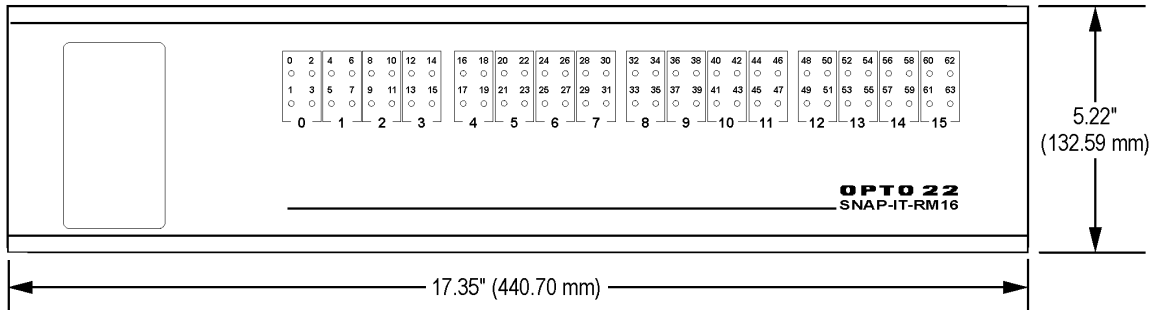
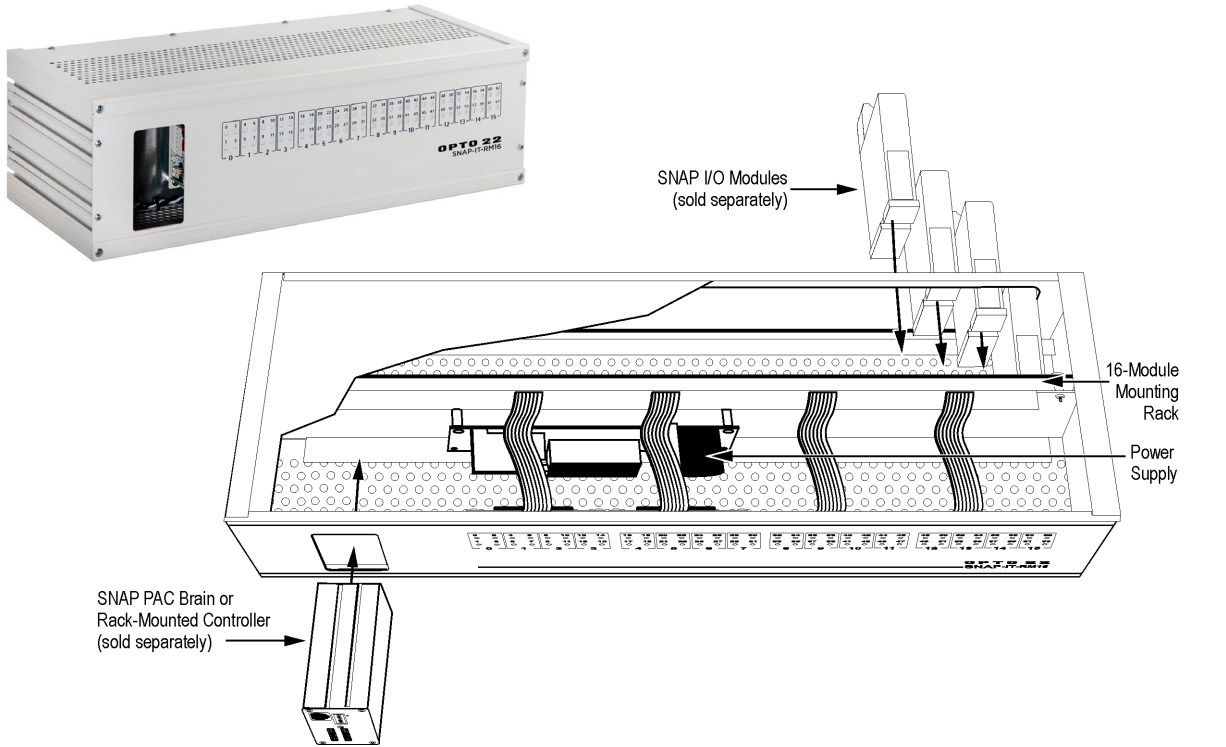
	SNAP-IT-RM16 [Obsolete]	SNAP-IT-PM12 [Obsolete]	SNAP-IT-WM4
Mounting	Rack mounted	Panel mounted	Wall mounted
Enclosure	Standard 19-inch metal rack-mount enclosure, 3U	Metal enclosure; meets NEMA 3R. <sup>1</sup>	Polycarbonate industrial enclosure, transparent cover; meets NEMA 4, 4X, 6 and IP66, IP67
Dimensions	17.25" W x 5.22" H x 7.5" D (43.8 cm x 13.3 cm x 19.1 cm) Depth includes modules, which extend 0.88" (2.3 cm) out the back of the box for wiring convenience.	16.19" W x 18.25" H x 6.57" D (41.1 cm x 46.4 cm x 16.7 cm)	9.84" W x 6.89" H x 5.9" D (25.0 cm x 17.5 cm x 15.0 cm)
Items included	Enclosure, SNAP PAC mounting rack, and power supply	Enclosure, SNAP PAC mounting rack, power supply, and 24 V loop power supply	Enclosure, SNAP PAC mounting rack, power supply, and 24 V loop power supply
I/O module slots	16	12	4
Power supply	UL rated 120-250 VAC Manufacturer rated 100-250 VAC	UL rated 120-250 VAC Manufacturer rated 100-250 VAC Loop power supply: 24 VDC	100–240 VAC (50/60 Hz) Loop power supply: 24 VDC
Power consumption	30 W	30 W	10 W
Power cord (order separately)	120 VAC United States, 240 VAC United Kingdom, or 240 VAC International	n/a	n/a
LED indicators <sup>2</sup>	On front panel, 64 LEDs indicate point status for 4-channel digital I/O modules; brain or controller LEDs are also visible on front.	Status LEDs on I/O and status/communication LEDs on brain or controller are not visible outside the enclosure.	Status LEDs on I/O and status/communication LEDs on brain or controller are visible through transparent cover.
Operating temperature <sup>3</sup>	0° to 70° C (32 to 158° F)	0° to 70° C (32 to 158° F)	–40 to 80° C (–40 to 176° F)
Storage temperature <sup>3</sup>	–30° to 85° C (–22 to 185° F)	–30° to 85° C (–22 to 185° F)	–40 to 80° C (–40 to 176° F)
Humidity	0–95% humidity, non-condensing	0–95% humidity, non-condensing	0–95% humidity, non-condensing
Warranty	30 months	30 months	30 months

<sup>1</sup> NEMA 3 or NEMA 4 is recommended for exterior use.

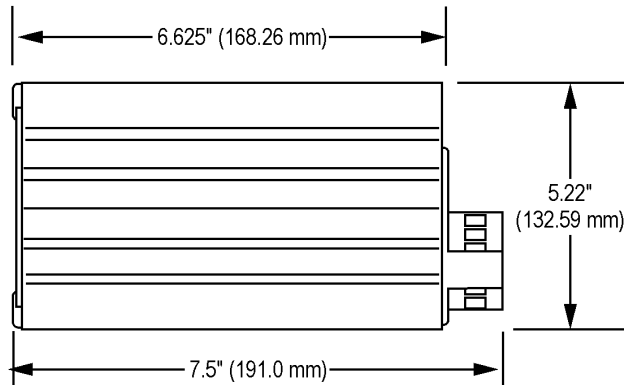
<sup>2</sup> See I/O, brain, or controller data sheets for details on LEDs.

<sup>3</sup> Operating and storage temperatures listed are for the enclosure only. Temperature limitations for the processor and I/O you install inside the enclosure are more limiting. See the processor's and I/O modules' data sheets for their specifications.

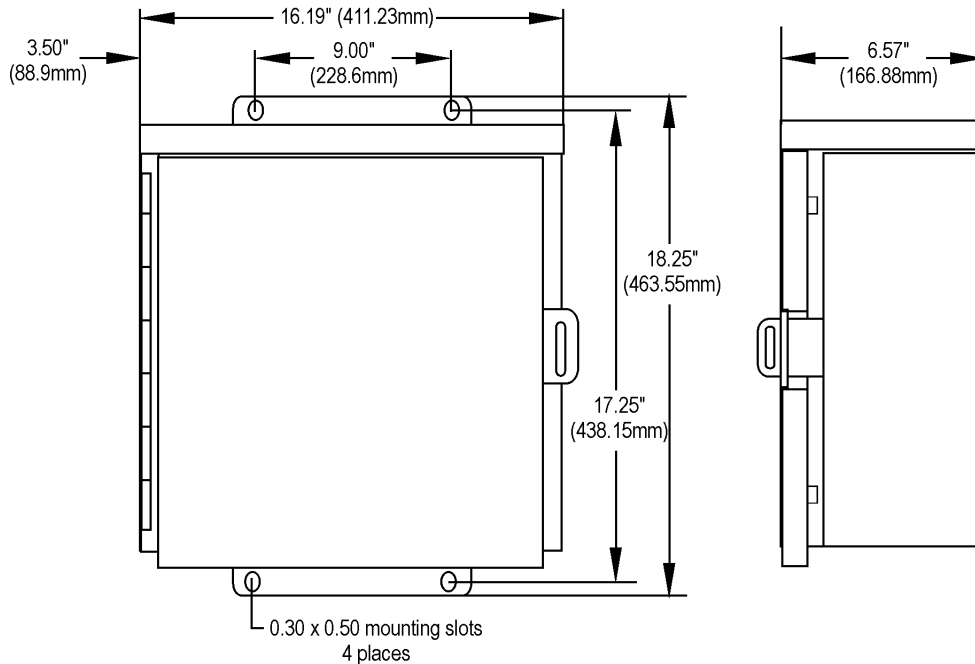
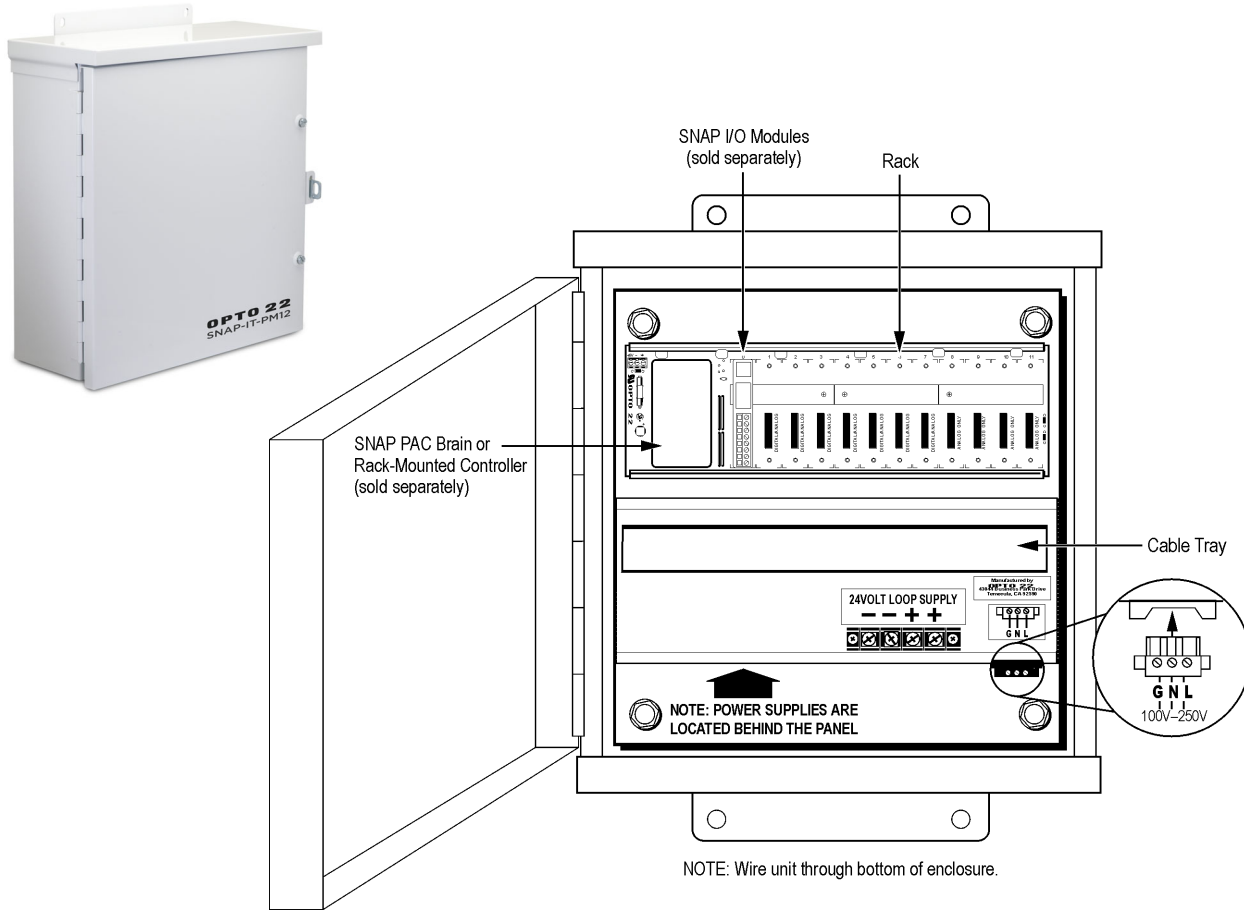
## DIMENSIONAL DRAWINGS—SNAP-IT-RM16 [OBSOLETE]



NOTE: I/O modules extend beyond the back edge of the enclosure for easier wiring.



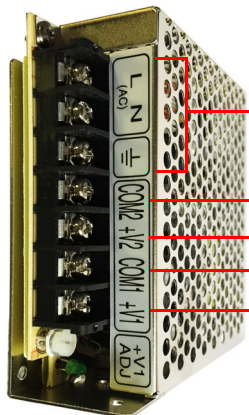
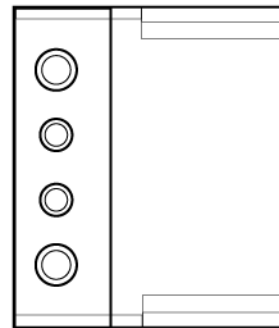
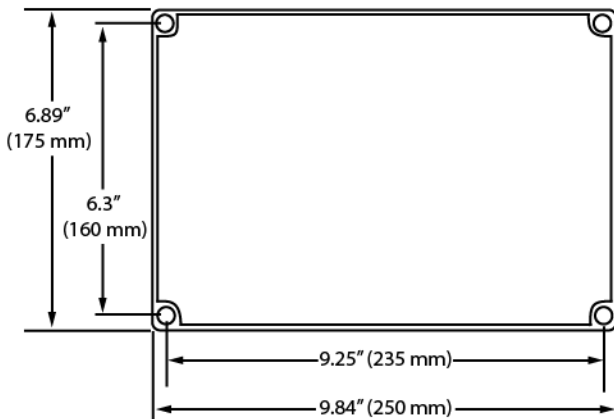
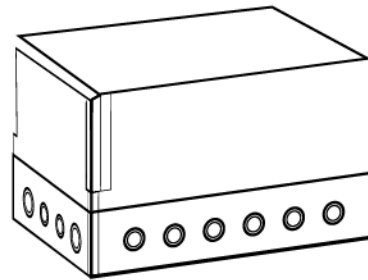
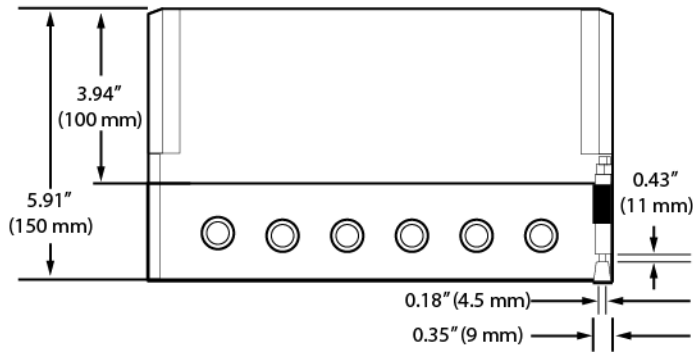
## DIMENSIONAL DRAWINGS—SNAP-IT-PM12 [OBSOLETE]



## DIMENSIONAL DRAWINGS—SNAP-IT-WM4

**NOTE:** If you are using the SNAP-IT-WM4 with a Wired+Wireless controller or brain, purchase a [90-degree right-angle bracket adapter](#) for the antenna. Wired+Wireless models include the following:

SNAP-PAC-R1-W	SNAP-PAC-EB1-W
SNAP-PAC-R2-W	SNAP-PAC-EB2-W



### Wiring the 24 VDC loop power supply

- AC
  - V1 = 4.0 A at 5 VDC
  - V2 = 1.4 A at 24 VDC
- 24 common
- + 24 VDC
- 5 common
- 5 VDC (wired to rack)