

# Specifications — HSA 400/800 Series

## Control/remote— HSA 822M, HSA 822MS

Contact closure ..... (1) 3.5 mm female captive screw connector, 10 pole

Contact closure pin configurations

Pin 1 = up, pin 2 = down, pin 3 = stop, pin 5 = enable push operation,  
pin 6 = status up, pin 7 = status down, pin 9 = status power,  
pins 4, 8, and 10 = ground

## General

**NOTE** *The Universal AC outlet is fully compatible with Europlug, British, Indian, Danish, and Italian plug types. See the Universal AC outlet guide on the Extron Web site, [www.extron.com](http://www.extron.com), for compatibility details on all plug types.*

Power

HSA 822M, HSA 822MS ... 100 VAC to 240 VAC, 50/60 Hz, 25 watts, internal

Temperature/humidity

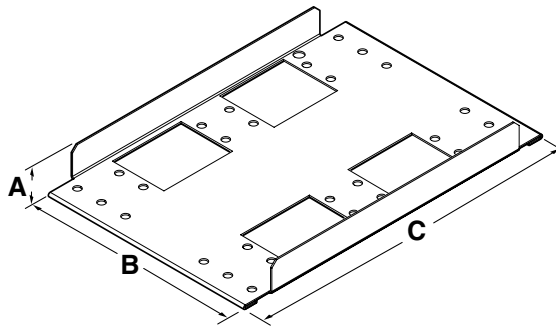
HSA 822M, HSA 822MS ... Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing  
Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing

Mounting

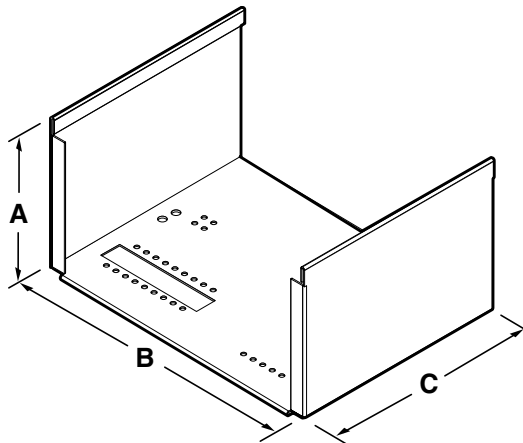
Furniture mount ..... Yes

Enclosure type ..... Metal

HSA 822MS .....



All other models .....



# Specifications — HSA 400/800 Series, cont'd

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## Enclosure dimensions

**CAUTION** Use the appropriate metal Extron routing template or refer to the surface cutout dimensions here before cutting a hole in the furniture or other surface. Pay special attention to the direction the unit will face; the unit's AAP and connector access side is underlined. Extron is not responsible for miscut mounting holes.

### HSA 400 (US)

Top plate (outer rim). 8.613" W x 6.425" D (21.88 cm W x 16.39 cm D)

Top plate (tilt plate)... 6.663" W x 4.475" D (16.92 cm W x 11.37 cm D)

Surface cutout..... 8.113 ±0.0325" W (front) x 5.925 ±0.0325" D  
(20.61 ±0.083 cm W x 15.05 ±0.083 cm D)

Clamshell (see diagram)

**A** = 5.25" (13.3 cm)

**B** = 7.75" (19.7 cm)

**C** = 7.75" (19.7 cm)

### HSA 402 (US)

Top plate (outer rim). 10.844" W x 6.425" D (27.54 cm W x 16.32 cm D)

Top plate (tilt plate)... 8.894" W x 4.475" D (22.59 cm W x 11.37 cm D)

Surface cutout..... 10.344 ±0.0325" W (front) x 5.925 ±0.0325" D  
(26.27 ±0.083 cm W x 15.05 ±0.083 cm D)

Clamshell (see diagram)

**A** = 5.25" (13.3 cm)

**B** = 9.80" (24.9 cm)

**C** = 7.75" (19.7 cm)

### HSA 400 (International)

Top plate (outer rim). 10.113" W x 6.425" D (25.74 cm W x 16.32 cm D)

Top plate (tilt plate)... 8.163" W x 4.475" D (21.88 cm W x 11.37 cm D)

Surface cutout..... 9.613 ±0.0325" W (front) x 5.925 ±0.0325" D  
(24.42 ±0.083 cm W x 15.05 ±0.083 cm D)

Clamshell (see diagram)

**A** = 5.25" (13.3 cm)

**B** = 9.25" (23.5 cm)

**C** = 7.75" (19.7 cm)

### HSA 402 (International)

Top plate (outer rim). 13.844" W x 6.425" D (35.16 cm W x 16.32 cm D)

Top plate (tilt plate)... 11.894" W x 4.475" D (30.21 cm W x 11.37 cm D)

Surface cutout..... 13.344 ±0.0325" W (front) x 5.925 ±0.0325" D  
(33.89 ±0.083 cm W x 15.05 ±0.083 cm D)

Clamshell (see diagram)

**A** = 5.25" (13.3 cm)

**B** = 12.8" (32.5 cm)

**C** = 7.75" (19.7 cm)

### HSA 822, HSA 822M

Top plate (outer rim). 8.470" W x 8.750" D (21.51 cm W x 22.23 cm D)

Top plate (vertically lifting plate)

6.220" W x 6.500" D (15.80 cm W x 16.51 cm D)

Surface cutout..... 8.00 ±0.0325" W (AAP access from front and back) x 8.30" ±0.0325" D  
(20.32 ±0.083 cm W x 21.08 ±0.083 cm D)

Clamshell (see diagram)

**A** = 7.24" (18.39 cm)

**B** = 8.25" (21.0 cm)

**C** = 10.98" (27.89 cm)

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HSA 822MS

Top plate (outer rim). 9.54" W x 9.82" D (24.23 cm W x 24.94 cm D)

Top plate (vertically lifting plate, not included—to be provided by customer)

6.14" W x 6.42" D (15.49 cm W x 16.31 cm D)

Surface cutout ..... 6.220 ±0.0325" W (AAP access from front and back) x 6.500" ±0.0325" D  
(15.80 ±0.083 cm W x 16.51 ±0.083 cm D)

Clamshell tray (see diagram)

A = 1.09" (2.77 cm) (tray height)

B = 7.30" (18.54 cm)

C = 10.98" (27.89 cm)

Overall height under table including tray

9.48" (24.1 cm)

Product weight

HSA 400, HSA 402 ..... 8.4 lbs (3.8 kg)

HSA 822 ..... 8.8 lbs (4.0 kg)

HSA 822M, HSA 822MS ... 10.0 lbs (4.5 kg)

Shipping weight

HSA 400, HSA 402 ..... 11 lbs (5 kg)

HSA 822 ..... 15 lbs (7 kg)

HSA 822M, HSA 822MS ... 17 lbs (8 kg)

Regulatory compliance

Safety

HSA 822M, HSA 822MS CE, CSA C/US

All other models ..... CE, CSA C/US, CUL, UL

MTBF

HSA 400, HSA 402, HSA 822 (gas lift)

100,000 cycles

HSA 822M, HSA 822MS (stepper motor)

100,000 cycles

Warranty ..... 3 years parts and labor

**NOTE** *Specifications are subject to change without notice.*

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