



# HW

## Datasheet



### HW | Enclosed Unit with Integrated PC

DYNICS HW is an integrated PC housed in a fully sealed metal enclosure for industrial applications. This fan-less system includes a Braswell motherboard and resistive touch screen capability.

#### Key Features

- NEMA 4 / NEMA 4X
- 100~240VAC (3-Pin) / 24VDC (4-Pin)
- VESA / Wall Bracket Mount System with Up to 10° Tilt

#### Display Specifications

Size	Resolution	View Angle	Contrast	Brightness	Aspect Ratio
15.6"	FHD 1920 x 1080	H: -80°/+80°, V: -80°/+80°	800:1	600 nits	16:9
18.5"	FHD 1920 x 1080	H: -85°/+85°, V: -85°/+85°	1500:1	400 nits	16:9
21.5"	FHD 1920 x 1080	H: -89°/+89°, V: -89°/+89°	5000:1	300 nits	16:9
24"	FHD 1920 x 1080	H: -89°/+89°, V: -89°/+89°	3000:1	300 nits	16:9
<b>Lens</b>	5-Wire Analog Resistive (Touch Screen) / Protective Polycarbonate Lens (Non-Touch)				
<b>LCD Life</b>	50,000 Hour Backlight Half-Life				
<b>Enclosure</b>	Metal Enclosure with Powder Coat Finish / Optional Stainless Steel				

#### PC Specifications

<b>Motherboard</b>	3.5" Braswell
<b>I/O</b>	2x 1Gb Ethernet Ports 2x USB 3.0 Ports
<b>CPU</b>	Braswell N3160
<b>CPU Speed</b>	1.6GHz Base, 2.24GHz Turbo (4 Cores, 4 Threads)
<b>Memory</b>	Up to 8GB DDR3
<b>Power Supply</b>	100~240VAC (3-Pin) / 24VDC (4-Pin) Power Entry
<b>Storage</b>	240GB – 2TB SATA SSD / 1TB HDD
<b>Operating System</b>	- Windows® 7 Embedded Standard (64-bit) - Windows® 7 Professional (64-bit) - Windows® 10 Professional (64-bit) - Windows® 10 Enterprise IoT LTSC 2016 (64-bit)
<b>Temperature</b>	Operating: 0° - 50°C (32° - 122°F) Non-Operating: -25° - 60°C (-13° - 140°F)
<b>Relative Humidity</b>	Non-Condensing: 20% - 80%
<b>Shock</b>	Operating: 10G Non-Operating: 15G
<b>Vibration</b>	Operating: 1.0G from 57~2000Hz Non-Operating: 2.5G from 57~2000Hz
<b>Included</b>	1x 6 ft. Power Cable
<b>Compliance</b>	European Union Directive 2011/65/EU (RoHS)
<b>Warranty</b>	24-Month limited warranty. Extended warranty available, contact DYNICS for details.





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### Dimensions, Weight and Power Consumption

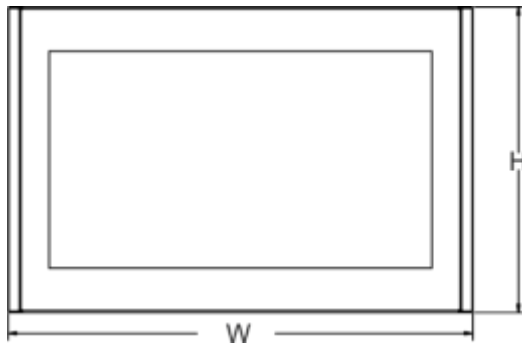
	15"	19"	22"	24"
<b>Height</b>	11.750" (298.5mm)	13.050" (331.5mm)	15.030" (381.8mm)	15.380" (402.1mm)
<b>Width</b>	17.538" (445.5mm)	19.807" (503.1mm)	22.606" (574.2mm)	24.813" (630.3mm)
<b>Depth</b>	5.938" (150.8mm)	5.938" (150.8mm)	5.938" (150.8mm)	5.938" (150.8mm)
<b>Weight</b>	15 lbs.*	20 lbs.*	24 lbs.*	26 lbs.*
<b>Power Consumption</b>	40 Watts**	45 Watts**	55 Watts**	85 Watts**

\*Weights are approximate, contact DYNICS for details.

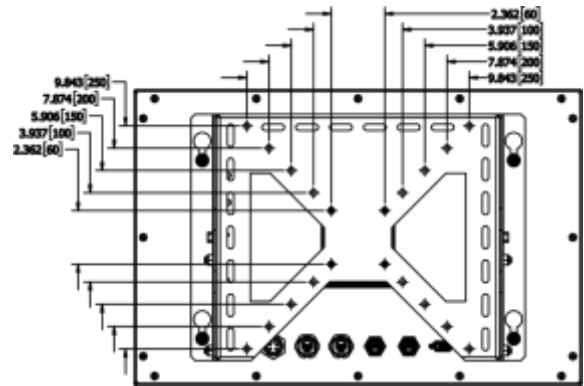
\*\*Power Consumption based on maximum ratings, actual ratings vary significantly based on components used.

### Mechanical Drawings

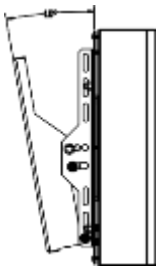
#### Front View



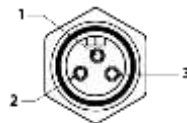
#### Back View



#### Side View

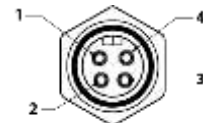


#### Power Entry (3-Pin) 100~240VAC



- 1 GROUND
- 2 LINE
- 3 NEUTRAL

#### Power Entry (4-Pin) 24VDC



- 1 0VDC
- 2 0VDC
- 3 +24VDC
- 4 +24VDC

All measurements are in inches and pounds, unless noted. Pictures and drawings are not to scale. Estimated weight may change depending on options. DYNICS reserves the right to change, modify, upgrade, or discontinue any part of this datasheet without any prior notice.

