

Hawki[®]
ADVANCED

Distributed
Direct Digital
Control System

Hawki ADVANCED the unitary controller designed to manage and monitor air-handling units within the Novar Controls energy and information management system.

Hawki Advanced communicates with Novar's primary controller or in fail-safe, stand-alone mode to:

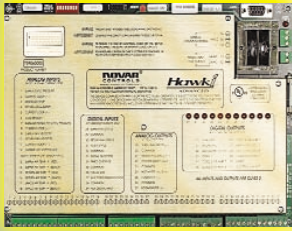
- Lower energy costs.
- Increase building comfort.
- Reduce equipment maintenance.

Hawki Advanced provides unparalleled reliability, to optimize:

- Comfort cooling and heating.
- Humidification and dehumidification.
- Automated start-up routines and scheduling.
- Fresh air ventilation and economizer control.

NOVAR[®]
CONTROLS

With Novar, you know.



Specifications



Hawki Advanced's flexibility and enhanced technology make it the most reliable air handling unit controller available today. It is engineered to control a wide range of AHU configurations (variable air volume, variable volume and temperature, dual duct, multi-zone, etc.).

Physical Characteristics

Height:	9.5 inches
Width:	13.22 inches
Depth:	2.44 inches
Weight:	4 lbs
Mounting:	Four base-slotted mounting holes allow fastening to a wall or cabinet
Options:	Indoor all-aluminum enclosure purchased separately

Operating Environment

Temperature:	-40° to 140°F (-40° to 60°C)
Humidity:	0 to 95% relative, noncondensing

Electrical

Voltage:	24VAC (Class 2)
Consumption:	15VA
Analog Inputs:	4 to 20mA (8) Millivolt temperature (3)
Digital Inputs:	Contact closure only
Analog Outputs:	0 to 10VDC, 1mA
Digital Outputs:	24VAC, 2 ampere (pilot duty)

Special Circuits/Diagnostics

Over Current:	Protects against overloading of current-loop power supply
Surge Suppression:	All inputs/outputs protected against lightning-induced surge or voltage transients
Low Limit Protection:	Outputs programmable to respond to low temperature

Network Communications

Method:	RS-485, isolated
Cable (network):	2-wire, shielded cable Belden 8761 or equivalent

Local Communications

Method:	RS-232, serial communication port
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Input/Output Points

Analog Inputs:	Total - 11 <ul style="list-style-type: none">• Supply duct static pressure• Building or mixed air plenum static pressure• Supply velocity pressure• Return velocity pressure• Return air relative humidity• CO₂• Outside air temperature• Supply air temperature• Return air temperature• Mixed air temperature• Zone air temperature
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Digital Inputs:	Total - 8 <ul style="list-style-type: none">• Supply fan status• Return fan status• Filter status• Smoke detector• Timed override• Low temperature limit status• Auxiliary confirmed status• Auxiliary input
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Calculated Inputs:	Total - 2 <ul style="list-style-type: none">• Supply cfm• Return cfm
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Analog Outputs:	Total - 6 <ul style="list-style-type: none">• Supply fan speed signal• Return fan speed signal• Chilled water valve signal• Hot water valve signal• Humidifier signal• Mixing dampers (economizer) signal
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Digital Outputs:	Total - 11 <ul style="list-style-type: none">• Supply fan start/stop• Return fan start/stop• 8 user-defined heat/cool outputs• Auxiliary output
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Specifications subject to change without prior notification.



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