

CLAXSERIES300E HAWK 300E

Product Data



GENERAL

HAWK 300E is a compact integration platform for building management.

It offers integrated HVAC and non-HVAC control, supervision, data logging, alarming, scheduling, and network management functions. It integrates connected devices regardless of device manufacturer and protocol used. Investment safety is guaranteed, as emerging new protocols can be added easily. HAWK 300E allows building management over the Internet and presents real-time information to users in web-based graphical views. It facilitates service opportunities and minimizes operational cost. HAWK 300E enhancements include data recovery services for battery-less operation and increased operating ambient temperature.

Battery maintenance is no longer necessary when using data recovery services.

FEATURES

HAWK supports the most common open standards as **BACnet, LonWorks, EIB-KNX, Modbus, M-bus, SNMP, and oBIX** – thus making it unnecessary to install multiple gateways. It can be used as a BACnet-certified integration node. Most of the integrated data from diverse protocols can be translated to BACnet.

It permits the full network management of LONWORKS devices. Its built-in web server provides GUIs via an Internet browser. E-mail and SMS functionality are further features.

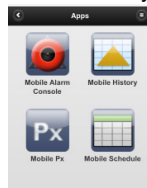


Fig. 1. Apps

Mobile browser access is supported as well.

ENGINEERING

The Graphical Engineering Tool (COACH^{AX}) is used for programming HAWK. It is embedded in HAWK, as well. This enables programming capabilities via the Internet without using a local installed tool.

CONNECTIVITY

HAWK features two Ethernet ports plus one RS 232 port and one RS 485 port as a standard.

2 Ethernet ports	10/100 MB, RJ-45 connections
1 RS232 port	9-pin D-connector
1 RS485 port	3-way, two-part connector

A dial-up or GPRS modem can be connected to the serial port, and a DSL modem/router can be connected to an Ethernet port, enabling IP communication for remote access and management.

PLUG-IN CARDS

The communication capability can be extended by adding plug-in cards into the unit's two expansion slots. The following Plug-In Cards are available:

CLAXHAWKIFLON	FTT-10A LONWORKS port
CLAXHAWKIF485	2 x RS485 ports
CLAXHAWKIF232	RS232 port

HAWK can be either used with additional LONWORKS I/O modules (e.g., Centraline's CLIO modules) or with HAWK Plug-On I/O Modules.

LON I/O MODULES

To enable LON communication, the LONWORKS plug-in card must be installed in the HAWK600E.

CLIOL821	Analog input module
CLIOL822 / CLIOLR822	Analog output module
CLIOL823	Binary input module
CLIOL824 / CLIOLR824	Relay output module

See also LonWorks Bus I/O Modules – Product Data (EN0Z-0980GE51).



Fig. 2. CentraLine CLIO modules

PLUG-ON I/O MODULES

DIN rail-mounted HAWK Plug-On I/O Modules can be added to provide up to 66 directly-connected datapoints. They can be connected to the HAWK 2xx/6xx via a single multi-pin plug. Two types of HAWK Plug-On I/O Modules are available:

CLAXHAWKIO16	8xUI, 4xAO, 4xDO; four per HAWK or two in combination with the CLAXHAWKIO34
CLAXHAWKIO34	16xUI, 8xAO, 10xDO; 24 Vac/dc power supply module integrated; one per HAWK also in combination with two CLAXHAWKIO16 modules

SUPERVISION

The ARENA^{AX} should be used if a Supervision system is needed.

POWER SUPPLY OPTIONS

CLAXNPBPWR	Plug-On 24 Vac/dc power supply module, 25 VA max, DIN rail-mounted
CLAXPME3VA	90...240V, 30VA
CLAXHAWKIO34	Plug-On I/O Module with integrated 24 Vac/dc power supply module
CLAXWPMEU	100...240 Vac, 50/60 Hz, European plug type
CLAXWPMUK	100...240 Vac, 50/60 Hz, UK plug type

SPECIFICATIONS

Platform

- PowerPC 405ex 400 MHz processor
- 256MB DDR RAM & 128 MB Serial Flash
- SRAM Data Recovery Service
- Real-time clock

Operating System

- QNX Real-time Operating System
- Oracle Hotspot Java VM
- Niagara^{AX} 3.7.106 or later[®]

Environmental Conditions

Operating temperature range: 0...60 °C
Storage temperature range: 0...70 °C
Relative humidity: 5%...95%, non-condensing

Housing

Construction: plastic housing, internal air convection-cooling.
Intended for indoor wall-mounting or panel-mounting, only.
Dimensions: 162x104(122)x62 mm (with terminals)
Panel fixing lugs add 20 mm to the main module width.

Agency Listings

- CE
- UL 916
- RoHS Compliant
- FCC part 15 Class A2
- C-UL listed to Canadian Standards Association
- (CSA) C22.2 No. 205-M1983 "Signal Equipment"

COMMUNICATION DRIVERS

Included Drivers

BACnet	IP, MSTP
LonWorks	required LONWORKS interface card (CLAXHAWKIFLON)
EIB / KNX	IP
M-Bus	via RS232 and M-Bus Master
Modbus	Async, Slave, TCP, TCP Slave
oBIX	Open Building Information Xchange
SNMP	Simple Network Management Tool

Additional Drivers

CLAXDRBPORT	Honeywell C-Bus via BPort driver
CLAXDRSMS	SMS Service for HAWK via GSM/GPRS modem

This is only a subset of available drivers. A list of all supported drivers can be requested via your CentralLine sales contact

ORDERING

The Web User Interface, the engineering software COACH^{AX} and the most common open drivers (includes drivers) are included with HAWK. The different versions of HAWK are differentiated by the Java Heap Memory (JHM) and the available Resource Units (RU). The JHM and the RU needed by a given application depend upon the number of connected networks, the complexity of the logic and of the GUIs, the number of points, the histories, and the alarms. These numbers can be estimated by the Resource Estimator, which is part of COACH^{AX}.

model	memory	limitations
CLAXHAWK350E	96MB JHM	--
CLAXHAWK340E	24MB JHM	--
CLAXHAWK330E	24MB JHM	600 kRU, 200 points per network (EIB/KNX 600 points)
CLAXHAWK320E	24MB JHM	400 kRU; 8 devices 100 points per network (EIB/KNX 200 points) NDIO max 34 points
CLAXARENA	--	--
CLAXARENASBS05B	--	supports up to 5 HAWK + 5 EAGLE
CLAXARENASBS10	--	supports up to 10 HAWK + 10 EAGLE
CLAXARENAAPC	--	Alarm Portal, only

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