

# CLAX SERIES 200 CLAX SERIES 600

## HAWK200 / HAWK600



### Product Data



## GENERAL

HAWK is a BTL-certified compact platform utilizing the Niagara<sup>AX</sup> Framework<sup>®</sup>. It combines integrated control, supervision, data logging, alarming, scheduling and network management functions with Internet connectivity and web serving capabilities in a compact device.

HAWK allows the control and management of external devices over the Internet and present real-time information to users in web-based graphical views. It helps to maximize operating and services opportunities and to minimize associated costs.

## 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.

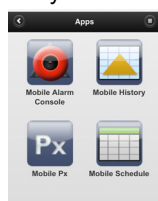


Fig. 1. Apps

Mobile browser access is supported as well.

## ENGINEERING

The Graphical Engineering Tool (COACH<sup>AX</sup>) 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., CentralLine'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<sup>AX</sup> should be used if a Supervision system is needed.

## POWER SUPPLY OPTIONS

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

## SPECIFICATIONS

### Platform

platform	HAWK 2xx	HAWK 6xx
IBM PowerPC processor 405EP	250 MHz	524 MHz
DRAM	128 MB	256 MB
Serial Flash	64 MB	128 MB

### Operating System

- QNX Real-time Operating System
- IBM J9 Java Virtual Machine or Oracle Hotspot Java 5 VM for HAWK600 with 3.6 or later
- Niagara<sup>AX</sup> Framework

### Environmental Conditions

Operating temperature range: 0...50 °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
- BTL
- 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

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

### Additional Drivers

<b>CLAXDREVO</b>	Honeywell Evo Home System
<b>CLAXDRBPORT</b>	Honeywell C-Bus via BPort driver
<b>CLAXDRSMS</b>	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<sup>AX</sup> 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<sup>AX</sup>.

model	memory	limitations
<b>CLAXHAWK660</b>	96MB JHM	--
<b>CLAXHAWK650</b>	48MB JHM	--
<b>CLAXHAWK640</b>	48MB JHM	1000 kRU;
<b>CLAXHAWK630</b>	48MB JHM	450 kRU; 200 points per network (EIB/KNX: 500 points)
<b>CLAXHAWK250</b>	48MB JHM	--
<b>CLAXHAWK240</b>	16MB JHM	--
<b>CLAXHAWK230</b>	16MB JHM	450 kRU; 200 points per network (EIB-KNX: 500 points)
<b>CLAXHAWK220</b>	16MB JHM	350 kRU; 8 devices per network; 34 points with Plug-On I/O Modules; restricted to one open network

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