



SAFE AND OPEN BUILDING CONTROL SOLUTIONS

**Protecting your building investment
... now and in the future**

//Honeywell Excel Web®//

Honeywell Excel Web® is a new standard in building control solutions, hosting core building management applications:

- Heating, ventilation, and air conditioning (HVAC)
- Energy management, including optimum start/stop, night purge, and maximum load demand
- Supervisory functions for lighting, sunblind control, heat and energy metering.

It offers long-term protection of your investment in your physical building structure and supports business goals by driving performance gain and reducing life cycle costs. Its capacity for innovative energy management provides a buffer against uncertain energy costs.



//Safeguard your investment//

Using our knowledge in the design, installation, maintenance and migration of building monitoring and automation control solutions, Honeywell can help you safeguard your investment. Our proven expertise supports problem-free business expansion, organisational change and structural alterations - and integration with subsystem vendors of your choice. This enables you to take full advantage of integration-readiness, both in building automation control and IT.

Big budget investors, building owners, facility managers and specifiers wanting freedom of vendor choice and long-term assurance will like Excel Web's unmatched independence and network security. It provides:

- An unprecedented combination of open protocols (BACnet and LonWORKS)
- Easy operation and remote services via standard browsers
- Improved networking security (with LINUX).






For those working to a smaller budget and looking for an easy inroad to building management at minimal cost, Excel Web offers an all-in-one solution for building automation control and supervision. It provides:

- HVAC control with embedded web server - no need for dedicated PCs and software licences
- Easy operation and remote services via standard browsers
- Improved networking security
- Integration readiness. Full building, life safety and security management can be achieved through Excel Web's BACnet interface.

Honeywell Excel Web assures investors of a good return on their investment now and well into the future. It underwrites a healthy gross margin and job revenue for contractors while the ability to do more with less, combines with vendor independence and interoperability, to simplify the life of a consultant specifier. Building operators will enjoy lower operating and maintenance costs throughout the life cycle of the building. Excel Web makes it easier to accommodate floor plan changes, all the time maintaining building availability.

Your IT people will like it. Concerned about the integrity of their network, they will be pleased that Excel Web uses Linux, the most robust open source operating system on the market. And, since it does not employ components that are subject to compromise, Excel Web is very 'firewall friendly'.

Openness through Excel Web ensures your investment in building management solutions are future-proof:

 	▶ Vendor-independence, by applying the building industry's two major standards: BACnet® and LonWORKS®
■■ WWW ■■	▶ Independent operation and maintenance via standard browser and embedded web server
 Linux	▶ Increased network security through a Linux® open source operating system



iF PRODUCT
design award
2005

//Keeping your options open//

Open standards in building automation control are the key to keeping your building fit for the future – to safeguard your investment.

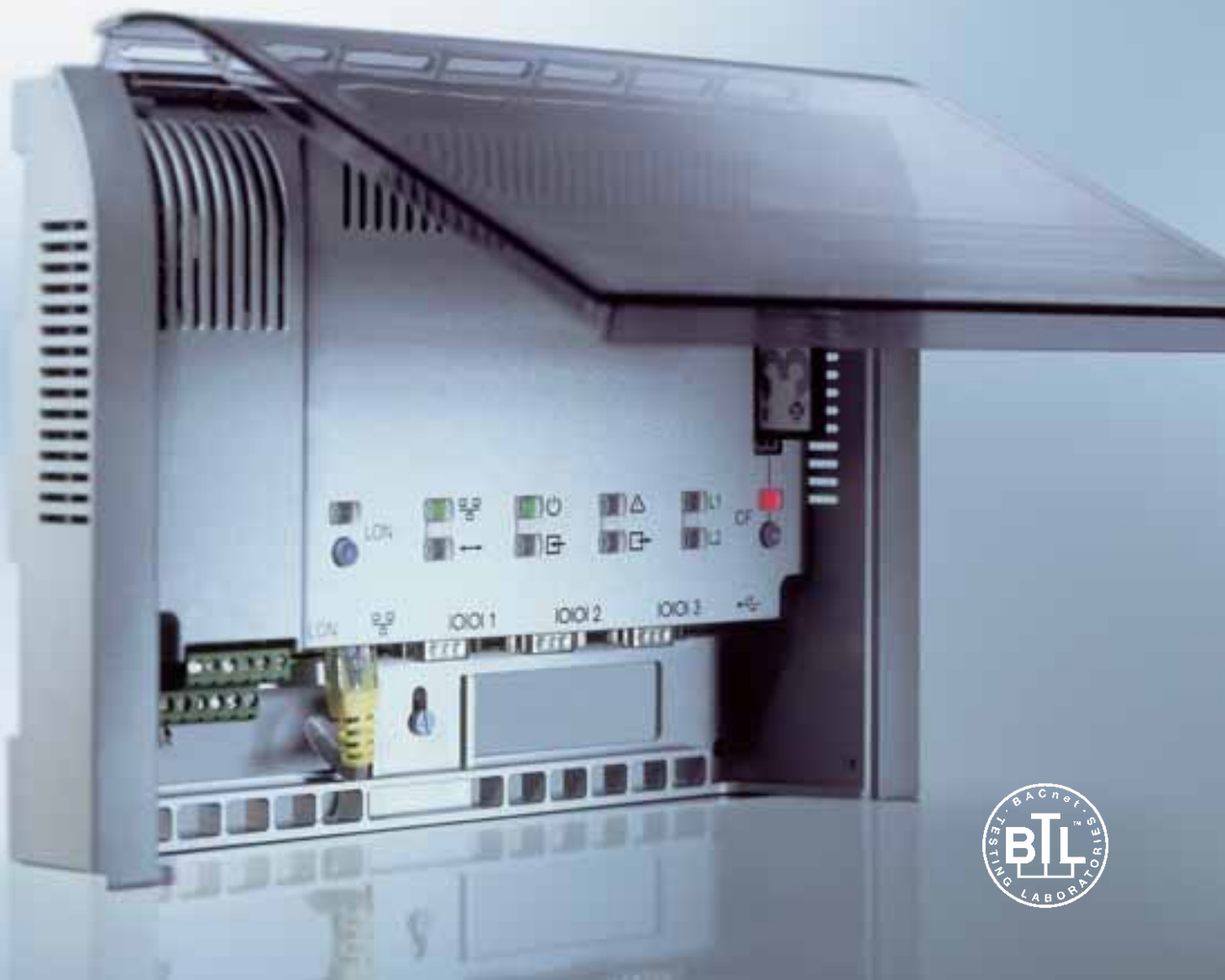
The advantages of an open system installation touch almost every aspect of a building: minimal installation cost, optimum lifecycle cost, improved facility management, reduced service costs and proactive maintenance.

Over three million buildings worldwide benefit from Honeywell control solutions. We have applied our experience and technological leadership to design Excel Web as a truly open HVAC controller using:

- BACnet (global ISO standard 16484-5) at the management and control level
- LonWORKS at the field device level.

Applying open standards without compromise delivers big benefits:

- Significant installation cost savings – you can use the network infrastructure without need for further specialist network devices
- Excel Web seamlessly integrates with any new or existing BACnet or LonWORKS installation. Likewise it can integrate other BACnet and LonWORKS products
- Standard Internet browser operation for all systems cuts cost and training requirements. It allows intuitive, user-friendly operation of all functions – greatly improving your ability to manage your whole facility:
 - data sharing
 - alarm and event management
 - trending
 - scheduling
 - remote device and network management



- If building requirements change, the necessary alterations can be made much more easily
- You are not “locked in” to one manufacturer, you have freedom of choice to select the most suitable – and cost effective – solutions to meet your end-user needs, now and in the future
- Planning, tendering and engineering are simplified through the use of standardised communications protocols
- Adoption of global standards paves the way for your building infrastructure to capitalise on future industry developments and improvements.

Honeywell Excel Web gives you peace of mind. You will have chosen a cost-effective solution for managing your facility throughout its whole life cycle.

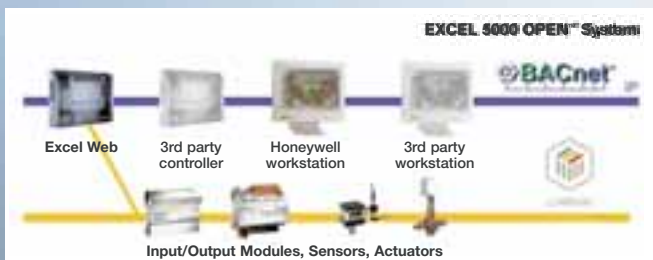


//Honeywell EXCEL 5000 OPEN™ System//

Excel Web is part of Honeywell’s powerful platform for the open integration of both Honeywell building management solutions and other manufacturers’ products. With its own range of expert engineering tools – which simplify design, specification and installation – EXCEL 5000 OPEN™ minimises risk, cuts costs and protects the building owners’ investments.

The open system architecture of EXCEL 5000 OPEN makes it ideal to operate Excel Web in conjunction with:

- Honeywell’s Enterprise Buildings Integrator™ and Honeywell SymmetrE™ workstations
- Third party workstations in any existing or new BACnet/LONWORKS installations and
- BACnet/LONWORKS-compliant third-party controllers.



Honeywell Enterprise Buildings Integrator™

Honeywell Enterprise Buildings Integrator™ is a powerful integrated facility management solution. No matter how complex your campus, it lifts productivity and performance gain to another level. Its one-window, web-enabled system allows total control of everything from building (HVAC, lighting, hydraulics and energy) to life safety and security management subsystems. Based on an open building automation architecture, it works seamlessly with BACnet and LONWORKS devices, as well as other third-party devices and subsystems.

Honeywell SymmetrE™

Honeywell Excel Web works seamlessly with Honeywell SymmetrE™, another open building management solution that helps you do more with fewer resources. Part of the Honeywell EXCEL 5000 family, it delivers an intelligent workstation for the monitoring and control of your heating, ventilation and air conditioning equipment. It brings your building, occupant and operational and budget issues into perfect balance, all the time helping to simplify facility management, boost productivity and cut costs.



Lower Cost To Install

Honeywell’s large portfolio of Input/Output Modules is ideally suited to Excel Web. The modules can be located where ever they are required because communication between them and the controller is handled through LONWORKS technology. This significantly lowers the cost of cabling and wiring and, with this, overall installation cost.

//Operate from anywhere//



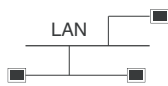
Remote access
via internet

■ ■ www ■ ■

Remote access
via modem

■ ■ Modem
Dial up ■ ■

Remote access
via network



Direct access
via laptop



Direct access
via touch panel



Gone are the days of proprietary operating units and the additional cost of hardware and licence fees! Excel Web operates with standard Internet browsers. It communicates with Internet Protocol (IP) and has a web server embedded. This enables you to access all controllers on the network through familiar web browsers, both locally and remotely:

- Remote access via Internet
- Remote access via modem (no internet provider needed)
- Facility wide access via the local area network (LAN)

- Direct access via laptop or touch panel
- 100% free-of-charge operation: no additional hardware, software, gateways, routers, licences required
- Comfortable operation with familiar web browser
- Global web standards give independence from proprietary hardware and software solutions, and open up all options for the future
- The facility can be remotely managed without a central workstation, offering features such as scheduling and downloading on-board trend buffers.

//Save money//

Excel Web sets a new benchmark in the building management industry. By applying open technology and Honeywell know-how, we can help you optimise your investment:

- Minimal installation cost, as existing standard Ethernet/LAN infrastructure is used to communicate between Excel Web controllers, third-party BACnet controllers and BACnet front ends
- Simple integration of Excel Web in any new or existing BACnet or LONWORKS installation (including those of other manufacturers)
- Seamless integration with other BACnet or LONWORKS products
- No extra web interface or PC needed; Excel Web has a built-in web server
- Flexible, cost-saving mounting on DIN-rail, wall, or panel front door
- Familiar, intuitive browser operation – no need for training and no expense on proprietary operating interfaces
- It allows workstation-independent operation in smaller installations – no need for any PC, software and licenses
- Built-in remote service capability: analyse LONWORKS communication, update firmware and application, download trend buffers – all via the network
- Optimum life-cycle cost: Openness of communication standards and the systems used enables competitive system expansion. You are free to select the most suitable products for your building requirements, now and in the future. No risk of being “locked in” to one supplier.



Technical Data

- Communication protocols:
 - BACnet/IP (ISO 16484-5), 100Mb/s
 - LON FTT10 78kb/s
- Application size:
 - 50/100 schedules via BACnet
 - 300/600 physical I/Os via LON
- Onboard trend buffer
- Optional Compact Flash Port for CF cards Type 1 and 2 (increases trend buffer)
- Firmware & application download via network, USB, serial port and modem
- Browser access via network, USB and serial port
- Battery-free back-up of real-time clock (72h by gold capacitor)
- 24VAC/DC power supply (allowing uninterrupted power supply)

BACnet® is a registered trademark of ASHRAE.

LONMARK®, LONWORKS® and the LONWORKS® logo are registered trademarks of Echelon Corporation.

Linux® is a registered trademark of Linus Torvalds.

EXCEL 5000 OPEN™, Excel Web®, Enterprise Buildings Integrator™ and SymmetrE™ are trademarks of Honeywell International.



Your Honeywell contact

Automation and Control Solutions

Honeywell GmbH
Böblinger Strasse 17
71101 Schönaich
Phone (49) 7031 637 01
Fax (49) 7031 637 493
www.honeywell.com

Honeywell