



# Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
<b>afp - 1704</b>	18-Feb-2005	Number 17	Issue date 1-May-2020	30-Apr-2021

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## Product designation

**Honeywell, BC216 series, control and indicating equipment**

(Refer to the Schedule/enclosures for further specified details)

## Agent/distributor

Honeywell Security and Fire  
9 Columbia Way, BAULKHAM HILLS, NSW, AUSTRALIA, 2153

## Registrant

Honeywell Security and Fire  
9 Columbia Way, BAULKHAM HILLS, NSW, AUSTRALIA, 2153

### Producer

Labor Strauss Sicherungsanlagenbau Ges.m.b.H. (LST)  
Neustiftgasse 36, VIENNA, AUSTRIA, A-170

## Conformance criteria and evaluation

The Honeywell, BC216 series, control and indicating equipment has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS 7240.2-2004, 'Fire detection and alarm systems - Part 2: Control and indicating equipment (ISO 7240-2:2003, MOD)'.
2. Australian Standard AS 7240.4-2004, 'Fire detection and alarm systems - Part 4: Power supply equipment (ISO 7240-4:2003, MOD)'.

## Limitations/conditions of conformance

Limitations/conditions of conformance, where identified on this certificate, are derived from qualifications from evaluation(s) for conformity and/or other related technical documentation. All details with respect to design, assembly and installation instructions and restrictions should be checked against the producer's current technical manual/data sheets and the requirements of the Authority having Jurisdiction.

Specified limitations/conditions, determined from the evaluation for conformity, include the following.

- i. System configure as an analogue addressable system with a System Sensor ADM device communication protocol.
- ii. Compatibility of this equipment with new or existing actuating devices should be verified prior to installation.

Issued by

David Whittaker  
Executive Officer – ActivFire Scheme



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This certification is issued within the scope of CSIRO Verification Services – Rules governing ActivFire Scheme and is valid only for the product(s) as submitted for evaluation and verification of conformity, subject to the following conditions.

- Reference to details, limitations and requirements, where documented as a schedule/enclosure with this certificate.
- The Registrant is responsible for their attestation of conformity and ensuring that on-going production complies with the conformance criteria defined in this certificate.
- This certificate will not be valid if any changes or modifications are made to the product which have not been notified and validated by CSIRO Verification Services.
- This certificate is subject to periodical re-validation upon verification that all requirements, as determined by the conformity assessment body, continue to be satisfactorily met by the Registrant.
- This certificate may only be reproduced in its published form, without modification and inclusive of all schedules/enclosures.
- Any changes, errors or omissions, must be submitted in writing and if necessary or requested, substantiated with relevant evidence.
- Any representations, such as advertising or other marketing related activities or articles shall reflect the correct contents of this certificate and conform with all relevant trade practices and consumer protection legislation and regulations.
- Any terms or conditions of use as applicable to content and documentation as published or accessed through web sites administered by the CSIRO Verification Services.

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## Producer's description

The Honeywell, BC216 series, control and indicating equipment (c.i.e.) is a microprocessor based digital/analogue addressable fire alarm system.

As a Grade I analog addressable system the equipment can be variously configured with a range of plug-in modules to produce assemblies designated as follows:

Model	Description
BC216-1	Stand alone c.i.e with ABB216-1 display panel.
BC216-2	Networked c.i.e. using NIF5-1 interface (RS485) with ABB216-1 display panel.
BC216-3	Networked c.i.e. using NIF5-1 interface (RS485) without ABB216-1 display panel.

The c.i.e. communicates serially and bi-directionally with detector zones and control modules via a 2-wire fault tolerant analogue addressable loop.

Honeywell, BC216 series, control and indicating equipment can be expanded to a maximum of 254 ADM loops. Each ADM loop can drive up to 99 detectors and 99 modules totalling 198 devices on the loop. Each ADM can be zoned into 128 alarm groups, but is limited to an FIP capability of 144 zones.

The ABF216 mimic panel can be networked to the Honeywell, BC216 series, control and indicating equipment.

Programming from CPU identifies all devices on the ADM and automatically assigns addresses to each device. The detector sensitivity level is software controlled at the panel or via an externally connected PC.

The CPU controls all communication and processing in the c.i.e. As part of the auto set-up, the detection control automatically recognises the number of loop interfaces employed, the number, address, and types of detectors and modules installed on the loop. The c.i.e. network communication is also processed by the CPU. One or two loop Interfaces (LIF64-1) can be plugged-in to the central processing board. The 3LG board provides an additional 2-loop capacity. Optionally two serial interfaces using RS232 is provided for external printers or other similar use.

Internally the Honeywell BC216 Power unit NTB216-1 provides for alarm outputs, fault outputs, "Supervised Siren" outputs, the "Information" bus connection and 6 open collector outputs and power supply "Fault" outputs.

## Technical specification

The following details are a representative extract of the technical specification for the Honeywell, BC216 series, control and indicating equipment and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

### Control panel:

Case	
Installation	Wall installation, surface mounted.
Material	Steel sheet, 1 mm, powder coated
Colour	Grey-white, RAL 9002
Protection class	IP30
Dimensions, w x h x d	400mm x 520mm x 120mm
Panel power consumption from 24V standby battery upon mains failure, without function modules, fault relay released, without FWI, without SIM216.	
BC216-1	90 mA
BC216-2 (including NIF5-1)	125 mA (active network)
BC216-3 (including NIF5-1)	90 mA (active network)
Number of functional modules	2
Number of detector zones, total	Maximum 144, depending on the function modules used
Weight without battery	Approx. 6 kg
Ambient temperature	-5°C to 50°
Relative humidity of the air	95% non-condensing

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## Power unit:

Mains	
Mains voltage	230Vac +10/-15%, 50Hz
Connected load	60VA
Power consumption	Max. 0.26A
Rated output voltage	Typically 28 Vdc
Peak output current total	Max. 1.8A
Stand-by battery	
Rated voltage	24 V
Final charge voltage at 25° C	27.3 V
Charge current	Max. 1.7A, current limited
Capacity	Max. 34 Ah
Connection	2.5A slow-blow fuse protected
Connection internal/external devices	2 x 0.8A fast blow fuse protected for INFO bus devices etc.

## Evaluated modules

Module description	Module identification	Rev.	PCB number	Iss.	Tech. drawing number	Iss.
ZTB216-1 Control CPU Board	ZN4973	11/03	PN 5233	V5	ZN4892	11/03
ZTB216-2 Control CPU Board	ZN4973	11/03	PN 5233	V5	ZN4892	11/03
NTB216-1 Power Supply Board	ZN4951	10/03	PN 5232	V7	ZN4884	11/02
NTB216-2 Power Supply Board	ZN5124	03/04	PN 5252	V3	ZN5122	03/04
ABB216-1 Front Display Control Board	ZN4974	07/02	PN 5234	V3	ZN4893	07/02
LAB48-1 LED Display Front Display Control Board	ZN49993	11/01	PN 5241	V3	ZN4928	02/00
SIM216-1 Serial Interface Board	ZN4961	09/02	PN 5244	V3	ZN4956	09/02
BCB216-3LG Dual Loop Board	ZN5205	09/03	PN 5257	V2	ZN5149	12/03
GIF8 -1 Conventional Interface Board	ZN49\35	04/99	PN 5235	V2	ZN4894	03/99
LIF64 -1 Single Loop Interface Board	ZN4997	02/04	PN 5236	V4	ZN4895	02/04
FW12 -1 Fire Brigade Interface Board	ZN4938	05/04	PN 5237	V5	ZN4896	05/04
FW22 -1 FW1 Extension Building Group Board	ZN4932	08/04	PN 5242	V2	ZN4931	08/04
SLB1 -2 Fire Brigade Interface Board	ZN3925	02/95	PN 5150	V3	ZN3924	02/95
SZ58 -2 Siren Device Module	ZN5057	11/03	PN 5251	V4	ZN5055	05/02
Flash EPROM on CPU						
IC4 on ZTB216 on main Processor board		V4.18				
incorporating "003" access code		V4.19				

## Control/monitor points:

Device type		System Sensor ADM protocol		Reference
Designation	Description	Max addressable points on analogue loop <sup>(2)</sup>	Max addressable points on analogue line <sup>(2)</sup>	
M503ME	Monitor Module	99	40 <sup>(1)</sup>	XF2090 / R2, 5-Oct-2004
M500ME	Monitor Module	99	40 <sup>(1)</sup>	
M210E	Monitor Module, 1 x 1 Input	99	40 <sup>(1)</sup>	
M220E	Monitor Module, 2 x 1 Input	99	40 <sup>(1)</sup>	
M211E	Monitor Module, 2 x 1, Input, 1 x 1	99	40 <sup>(1)</sup>	
M201E	Control Module, 1 x 1 Output	99	40 <sup>(1)</sup>	
M201E	240 – Control Module 1 Relay Output	99	40 <sup>(1)</sup>	
M201E	240 – DIN, DIN Rail Version of M201E – 240	99	40 <sup>(1)</sup>	
M500X	Fault Isolation Module	99	40 <sup>(1)</sup>	
SC6	Multi Module <sup>(3)</sup> , 6 Output Supervised	99	40 <sup>(1)</sup>	
CR6	Multi Module <sup>(3)</sup> , 6 Output Relay	99	40 <sup>(1)</sup>	
CZX	Multi Module <sup>(3)</sup> , 6 Input Supervised	99	40 <sup>(1)</sup>	
IM10	Multi Module <sup>(3)</sup> , 10 Input Supervised	99	40 <sup>(1)</sup>	

Notes:

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1. Maximum number of devices permitted by AS1670.1.
2. The maximum specified loop/line resistance is 50  $\Omega$ .
3. Each output relay on a Multi Module uses one address point.

## Actuating devices:

Device type	System Sensor ADM protocol		Reference
	Max addressable points on analogue loop <sup>(2, 3)</sup>	Max addressable points on analogue line <sup>(2)</sup>	
System Sensor, 2251AUS analogue photoelectric smoke detector	99	40 <sup>(1)</sup>	XF2090 / R2, 5-Oct-2004
System Sensor, 2151AUS analogue ionisation smoke detector	99	40 <sup>(1)</sup>	
System Sensor, 5251AUS analogue heat Type A, B, C and D detectors	99	40 <sup>(1)</sup>	
System Sensor, 2251TMAUS analogue multi-sensor (heat/photo) detector	99	40 <sup>(1)</sup>	
System Sensor, 7251AUS analogue laser smoke detector	99	40 <sup>(1)</sup>	
<b>All of the above detectors with the Model B501 detector base</b>			
System Sensor, FTX P1AUS analogue filterix optical smoke detector	99	40 <sup>(1)</sup>	
<b>The above detector with the Model B501 detector base</b>			
System Sensor, DH 200P duct sampling unit	99	40 <sup>(1)</sup>	
System Sensor, M500KAC addressable manual call point	99	40 <sup>(1)</sup>	

## Notes:

1. Maximum number of devices permitted by AS1670.1.
  2. The maximum specified loop/line resistance is 50  $\Omega$ .
- The maximum loop devices and detectors combined cannot exceed 198.