



analogue installation

IS-2503



Global Website: www.BandG.com

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Brookes & Gatehouse Ltd
Premier Way,
Abbey Park,
Romsey,
SO51 9AQ
UK

B&G USA
13191 56th Court,
Suite 106,
Clearwater,
Florida 33760
USA

B&G France
Place Bernard Moitessier,
Plateau Nautique,
17000 La Rochelle,
France

Tel: (+44) (0)1794 518448
Fax: (+44) (0)1794 518077

Tel: (+1) 727 540 0229
Fax: (+1) 727 540 0281

Tel: (+33) 5 46 44 01 01
Fax: (+33) 5 46 34 30 07

CE Certification:

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference, the user is encouraged to try to correct the interference by relocating the equipment or connecting the equipment to a different circuit. Consult an authorised dealer or other qualified technician for additional help if these remedies do not correct the problem.

This device meets requirements for CFR47 Part 15 of the FCC limits for Class B equipment.

The *h1000* meets the standards set out in European Standard EN 60945: 1997 IEC 945 : 1996 for maritime navigation and radiocommunication equipment and systems .

CE-Zertifizierung:

Dieses Gerät erzeugt und verwendet HF-Energie und kann diese ausstrahlen; wenn es nicht gemäß der Anweisungen installiert und verwendet wird, kann es störende Interferenzen mit dem Funkverkehr verursachen. Allerdings wird nicht gewährleistet, dass es bei einer bestimmten Installation keine Interferenzen geben wird.

Wenn dieses Gerät Störungen verursacht, sollte der Benutzer versuchen, die Störungen zu beheben, indem er das Gerät anders aufstellt oder an einen anderen Stromkreis anschließt. Wenden Sie sich für zusätzliche Hilfe an den Vertragshändler oder einen Fachmann, wenn das Problem durch diese Maßnahmen nicht behoben werden kann.

Dieses Gerät entspricht den Anforderungen für CFR47 Teil 15 der FCC-Begrenzungen für Geräte der Klasse B.

Der *h1000* erfüllt die Vorschriften der Europäischen Norm EN 60945:1997 IEC 945:1996 für maritime Navigations- und Funkkommunikationsgeräte und -systeme.

Certificación CE:

Este equipo genera, utiliza y puede radiar energía de radiofrecuencias y si no se instala y utiliza de acuerdo con las instrucciones, puede causar interferencias dañinas con las comunicaciones de radio. Sin embargo, no hay ninguna garantía de que no ocurran interferencias en una instalación particular. Si este equipo causa interferencias, se aconseja al usuario que intente eliminarlas cambiando de sitio el equipo o conectándolo a un circuito diferente. Si estas acciones no corrigen el problema, consulte a un concesionario autorizado u otro técnico calificado para que le ayude.

Este dispositivo cumple con los requisitos de CFR47 Parte 15 de los límites FCC para equipo de Clase B.

El *h1000* satisface las normas establecidas en la Norma Europea EN 60945: 1997 IEC 945 : 1996 para equipo y sistemas de navegación y radio comunicaciones marítimas.

Certification CE :

Cet équipement émet et utilise une fréquence qui peut rayonner de l'énergie et, si son installation et son utilisation ne sont pas conformes aux instructions, il peut être la cause de parasites nuisibles aux communications radio. Il n'y a cependant aucune garantie que des parasites ne se produiront pas dans une installation spécifique. Si cet équipement est la cause de parasites nuisibles, il est conseillé à l'utilisateur de remédier à ces parasites en déplaçant les appareils ou en effectuant le branchement sur un circuit différent. Il faudra consulter un agent agréé ou un autre technicien qualifié pour une aide supplémentaire si le problème n'est pas résolu par ces interventions..

Cet appareil est conforme aux normes requises pour la certification CFR47 Part 15 des limites FCC aux USA pour les équipements de Classe B.

Le *h1000* est conforme aux normes définies par la Norme Européenne EN 60945: 1997 IEC 945 : 1996 pour la navigation maritime et les équipements et systèmes de télécommunications .

Marcatura CE:

Questo equipaggiamento genera, utilizza e può irradiare l'energia della frequenza radio e, se non viene installato e usato in base alle istruzioni, può causare interferenze pericolose alle comunicazioni radio. Non vi è neppure nessuna garanzia che una determinata installazione non sia soggetta a interferenze. Se questo apparecchio causa interferenze nocive, incoraggiamo l'utente a cercare di correggere tali interferenze riposizionando o collegando l'equipaggiamento a un circuito diverso. Rivolgersi a un concessionario autorizzato o a un tecnico opportunamente addestrato per ulteriore assistenza se questi rimedi non correggono da soli il problema. Questo dispositivo soddisfa i requisiti della normativa CFR47 Parte 15 dei Limiti FCC per l'equipaggiamento Classe B.

Il modello *h1000* soddisfa gli standard esposti nella normativa europea EN 60945: 1997 IEC 945: 1996 per equipaggiamento e sistemi per la navigazione marittima e le radiocomunicazioni.

trademark

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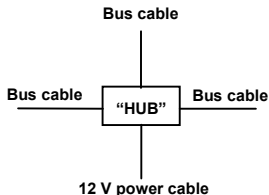
technical specifications

Dimensions mm:	110mm x 110mm x 40mm
Power Supply:	12v dc nominal (10 to 16V) via FastNet ²
Operating Temperature range:	-10 to +55°C (+14 to +131°F)
Storage Temperature range:	-25 to +70°C (-13 to +158°F)
Humidity:	Up to 95% RH
Sealing:	IP67 (with dust caps fitted)
Accessories:	Mounting template, power supply, I/O cable and protective cover

features

- B&G's *h1000* Analogues add a distinctive sophistication to any system - these easy to read displays can be sighted anywhere they are required to provide the helmsman and crew with all necessary performance and navigational information.
 - Clarity and readability of B&G's *h1000* Analogues has always been second to none, favoured by many for the ease with which trends can be followed.
-

system connections



connections

System components share data together via a common Fastnet² databus and are supplied with bayonet connectors for ease of installation. A selection of cable lengths are available with options for straight and right angle connectors to suit most requirements.

To prevent the occurrence of voltage drops on larger systems, the power supply to the system should either be placed mid-way or at both ends of the Fastnet² databus. To connect power to the mid-point of the system, it is recommended that the 4-Way Hub be used. The 4-Way Hub offers two advantages. The first advantage is that it offers a convenient entry point for power onto the system. The second advantage is that it conveniently allows the system to be branched to reduce the overall length of the system. The correct selection of Fastnet² cable will negate the need for any plugs to be removed from the system and ensure years of faultless operation.

installation

panel mounting

Ensure there is sufficient room behind the panel to accommodate the fixings and connections, and using the template supplied, cut a hole in the panel in the desired position.

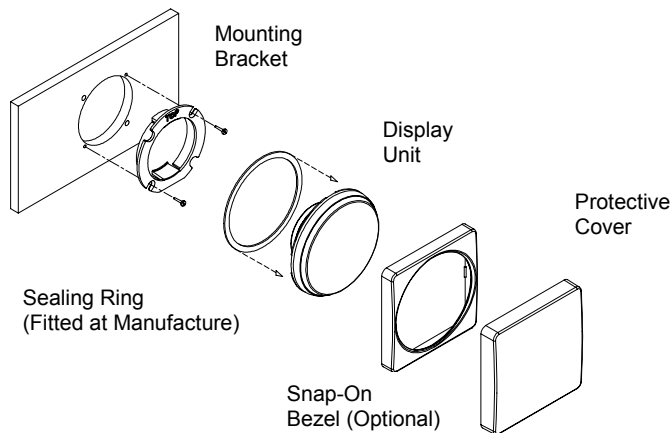
Fix the mounting bracket into the hole using the screws supplied.

Note: The sealing ring is fitted to the unit during manufacture. It's purpose is to prevent moisture penetration and reduce the effects of any vibration transmitted through the instrument panel.

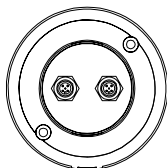
Press the **Display** into the mounting bracket; an audible 'click' will indicate that the case is correctly located. Secure the unit to the instrument panel by fitting the studs and thumbnuts supplied.

Caution: To avoid damaging the casing, fixing studs must only be tightened 'finger-tight'.

Fit the optional snap-on bezel, if required.



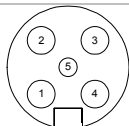
electrical connections



external connections

Two FastNet² connectors are provided at the rear of the unit. These connectors allow connection to the rest of the system for the supply of power and data.

The table below shows the pin functions.



Front view of
male connector pins

Pin Number	Signal
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1	12V
2	Busy
3	FastNet ² -
4	FastNet ² +
5	0V