



G. Passionate about winni

B&G instruments have been on board all winning boats in the Volvo Ocean Race, TP52 MedCup and America's Cup, along with setting records around the globe.

B&G understands the requirements of the professional racer – we provide dockside support at the world's most important regattas and events, we support our systems with the best warranty in the business and – most importantly – we understand that great products by themselves are not enough. B&G provides a full package of support through the design stages, configuration, sea-trials, events and upgrades. If our product doesn't meet your exacting requirements, B&G's Custom Projects can work with you to find solutions to suit your specific requirements.



WTP3 has evolved from the previous WTP processors which are used by Volvo winners, Jules Verne record holders and top inshore racers. With key input from a wide range of professional racing teams the new WTP3 is faster, lighter and adds significant functionality over its predecessors.

The WTP3 brings new architecture with a central CPU linked to distributed data collection networks - operating at up to 1Mbit on three independent channels – the possibilities for data collection are hugely expanded, supporting recent progression in both high-end racing and superyacht systems. Data is processed in the CPU, which outputs display data, transmits serial and digital data for output via modules, communicates with Deckman via LAN and operates an on-board datalogger for post-sail data analysis.

WTP3, along with B&G's range of displays, sensors and software, is the ultimate Grand Prix instrument system.









Compatible sensor support

Pilot



System monitoring

USB port:

- Software updates
- Configuration updates
- Datalog file offload

CAN ports:

- I/O module networks
- Independently configurable
- 125 kbit > 1 Mbit speed options

CNC enclosure:

- CNC machined enclosure
- Lightweight & Robust
- IP67 protection

LAN port:

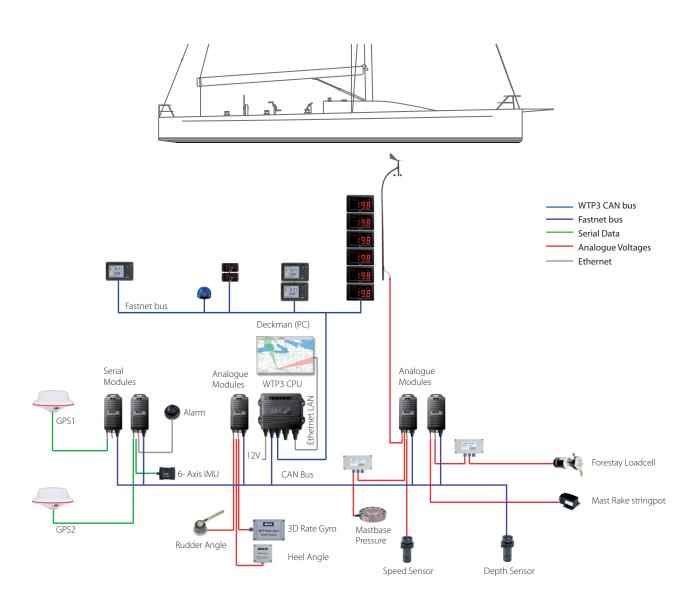
- 100Mbit Ethernet
- Deckman comms
- FTP access (file system)
- Datalog access



sensor network

Diagnostic LEDs:

- Power
- CAN status
- Fastnet
- Logging
- USB





Deckman

The world's leading tactical software package, Deckman is also the primary control software for WTP3 systems



Vertical MHU

High-modulus carbon spar, combined with the high-accuracy provides the best wind sensor available for WTP3 systems



IMU

The IMU is a 6-axis heading sensor in an incredibly lightweight, robust package. Provides the WTP3 with Heading, Heel and Trim – the IMU can also be used to supply pitch, roll and yaw data as a secondary source to the 3D Rate Gyro



HV Displays

Rapid update, ultra-clear. HVision bonded display technology provides the clearest instrument displays available, crystal clear, zero condensation and incredibly durable



Pilot

The fastest sailboat Pilot in the world. Used to steer monohulls and multihulls to record breaking performances around the globe. Now integrates closely with WTP3 for ultimate performance



STORATE GYRO

3D Rate Gyro

Utilising three of the best available axial rate gyro sensors allows the 3D Rate Gyro to supply WTP3 with highly accurate pitch, roll and yaw rate data for wind stabilisation and heading compensation



Loadcells

Utilised for performance settings and safety monitoring, loadcells can be integrated into WTP via Fastnet, analogue or serial inputs depending on application

Specifications

Electrical

Supply Voltage Power consumption

12 vDC

Nominal CPU only, excludes modules, displays etc

Physical

Weight Environmental protection

193 x 164 x 65mm/ 7.6"x6.5"x2.6" 950g/2.1 lb. IP66, IP67

Including mounting lugs

Interfaces

Sensor networks Display network

PC connectivity File offload Terminal/Diagnostic CAN (3 independent networks)

Fastnet/

Ethernet, 100Mbit USB, Ethernet (FTP) Serial port

All ports independently configurable 125k-1Mbit 2A power available per channel GFD, FFD, HV displays Also supports some sensors (e.g. Halcyon 2000)

RS232, 9 pin connector supplied with IP67 cover

I/O Modules

Electrical

Supply Voltage Sensor supply

12 vDC via CAN

5V and 12V, max 300mA/module

61 x 131 x 45mm/ 2.4"x5.2"x1.8"

Nominal

Excluding sensors powered from module 5V regulated, 12V nominal (bus voltage)

Physical

Weight / Environmental protection

170g/6 oz. IP66, IP67

Including mounting lugs

Assumes installation of cables as per instruction

Interfaces

Network Interface type **Baud Rate**

CAN 125k-1Mbit

User selectable – higher speeds limit CAN cable length

Network

Hot-swapping

Up to 16 per channel

ID set manually via DIP switch

Analogue/Pulse Module specific

Analogue Inputs Number of inputs

Voltage range A-D Resolution

6 per module 0 to 5V, -5 to +5V 12-bit (4), 10-bit (2)

100Hz Output rate 20Hz

Pulse Inputs

Number of inputs Input type

2 0-5V TTL

Serial Module specific

Serial Ports

2 bi-directional 4,800 - 115,200 RS422, RS232, NMEA0183 Number of ports Interface Baud Rate

Digital I/O ports

Number of ports

5x oversampled

Use for buttons, relay inputs etc



To discuss your requirements please contact either your local B&G Race Specialist, or contact B&G directly on racing@bandg.com