

## ECONOMIC COVERAGE AND RUNNING COSTS

BlueTraker®2000 transponder communicates telematic data through GSM networks and keeps customers satisfied at low position reporting costs. BlueTraker®2000 keeps your vessel covered wherever it might be - 24 hours a day, 7 days a week - and reduces costs automatically and effectively while using the GSM communication network. This makes it the perfect transponder for security monitoring and yacht cruising.

## EXCEPTIONAL OPERATING AUTONOMY

BlueTraker®2000 features a built-in rechargeable Lithium-ion or Lithium-poly chemical source of energy with capacities up to 9000 mAh! Should external power become unavailable for any reason, this internal battery supply takes over automatically. BlueTraker®2000 will operate for up to five days on internal battery power. The battery will automatically begin recharging when the external power source (vessel batteries or power generator) is restored.

## MODULAR SYSTEM

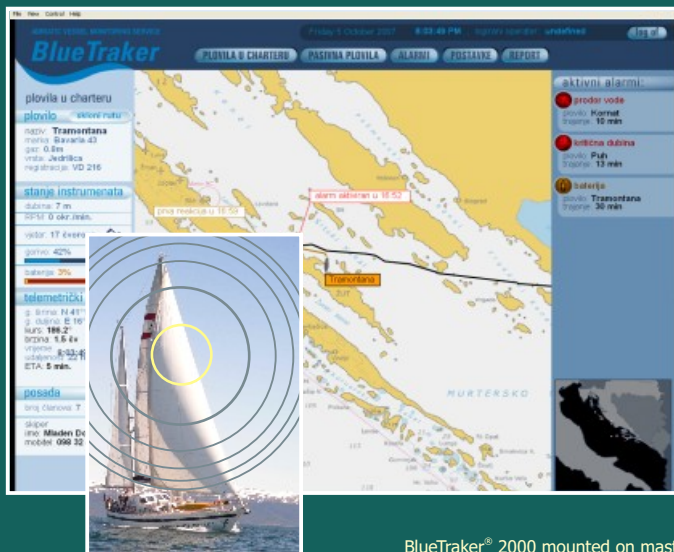
A range of BlueTraker® transponders are available for almost any tracking need imaginable.

BlueTraker® 2000 - GSM/GPRS

BlueTraker® 2100 - Iridium Satellite

BlueTraker® 2200 - Hybrid (Iridium Satellite and GSM/GPRS)

Sail or motor boats monitoring and additional sensor alert reporting



BlueTraker® 2000 mounted on mast

## TECHNICAL SPECIFICATION

### External power supply:

12V --- or 24V --- nominal / 0,5A

### CPU and memory:

Philips/ARM based; 90 000 messages storage capacity

### Battery back-up:

Li-Poly 4500 mAh for -25° C to +55° C  
optional 9000 mAh

### Digital inputs:

4 opto isolated digital inputs

### Digital outputs:

1 Relay output 100 V/ 0,8 A/ 30 W

### Integrated Antennas:

GPRS, GPS

### Installation:

External-mast, roll-bar, etc.

### Mounting accessoires:

UniMount, MastMount, TowerMount

### Dimensions (w x h x l):

198 x 67 x 198 mm (7,80 x 2,64 x 7,80 in.)

### Weight incl. batteries:

1100 g (38,83 oz)

### Outer-shell colour:

White

**eiiia**  
WIRELESS DATA SOLUTIONS

EMA d.o.o.  
Mariborska 1  
SI - 3000 Celje  
SLOVENIA

[www.bluetraker.com](http://www.bluetraker.com)  
[www.ema.si](http://www.ema.si)

+386(0)3 42 84 800  
[sales@ema.si](mailto:sales@ema.si)  
[www.ema.si](http://www.ema.si)

EMA reserves the right to make changes without notice to products and or specifications.  
©2008 EMA - Wireless data Solutions All rights reserved.  
All trademarks or registered trademarks are the property of their respective owners.

95-07-X

# BlueTraker® 2000



The World finest!

**GSM/GPRS transponder  
for the remote monitoring  
and security of leisure boats**

**BlueTraker®**

2007  
**DAME**  
DESIGN AWARD METS  
nominee

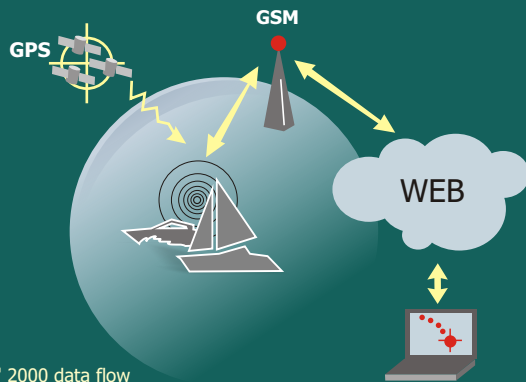
All in one solution!

**eiiia**

**BlueTraker® 2000** is a transponder for tracking and monitoring of your leisure boat at sea with low investment and modest airtime running costs.

## WIRELESS

BlueTraker®2000 utilises bidirectional communication channel to and from the boat via a web based monitoring interface. By using terrestrial communication GPRS/SMS costs are minimised. Effective position reporting enables messaging latency while vessels are in coastal waters or the storing of route logs in internal memory while vessel is on open seas. Logs will be transmitted immediately when transponder is in GSM/GPRS range again. Cost effective reporting is now available.



BlueTraker® 2000 data flow

## UPGRADING OVER THE AIR

The low cost and wide bandwidth of GPRS enables us to regularly keep the system updated with new software upgrades. The BlueTraker®2000 is upgraded remotely and wirelessly - without wasting valuable resources and money. This functionality alone can repay the purchase value of the BlueTraker®2000 by eliminating out-of-warranty maintenance costs. Precise geofence detection thanks to geofence data downloads and enhanced future functionality upgrades over the air are only a few of the many advantages of this system.

## INTEGRATED DESIGN

BlueTraker®2000 is mechanically and electrically a fully integrated device with a central processing unit, GPRS transceivers, fitted with internal antennas, and with an autonomous power supply. Everything is packed inside a very robust housing with a double shell construction. This high level of integration protects from fraud or misapplication often found when "cabling rich" modular devices are installed.

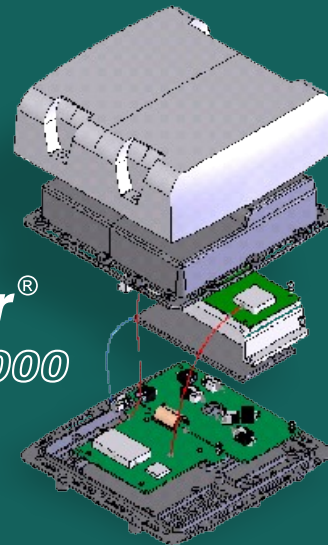
## FULLY SCALABLE

A range of flexible, low-spec to high-tech devices are available to suit anyone's tracking needs. For example you may use BlueTraker®2200 model with satellite (Iridium) communication which offers you realtime global monitoring while your vessel is cruising on open seas. When your vessel is in coastal waters or idle BlueTraker®2200 automatically switches to the standard GSM communication to keep costs to a minimum. This function is very cost effective during winter mooring when less regular messaging is sufficient to ensure peace of mind and maintain security at the highest possible level. BlueTraker®2200 switches back automatically to satellite (Iridium) communication when you need the high specification unit with all features enabled.

## ROBUST CONSTRUCTION

Your new tracking device mounts externally onto your vessel and resists all the weather conditions, mechanical bumps or electrical interference which can occur throughout years of operation. The BlueTraker®2000 housing consists of a double-shell construction. Each shell is separated by a layer of air which is not sealed to the external environment. Air can freely and slowly circulate between the two shells and the device can resist even the harshest chill factor when the vessel is moving at high speed through the coldest of environments. The housing unit is fully waterproof. The construction provides exceptional ingress protection up to a maximum of IP69K protection grade (car wash environment). High UV radiation and temperatures from -25°C to +55°C will have no impact on BlueTraker®2000 operation.

**BlueTraker®**  
2000



## PEACE OF MIND

### Mechanical protection

- Double-shell housing
- Shock resistance tested with multiple drops ranging from 1,2 m height to every side of device
- Mechanically coded stainless steel secure screws
- Waterproof and dust protection



Double shell housing - air flow

### Electrical protection

- Power supply input protected against overvoltage (600V AC/DC) & polarity reversal
- Power line disconnect below 9 V and above 35 V DC
- 8 kV ESD protection

### Environmental conditions

- Temperature range : -25 °C to +55 °C,
- Humidity: 10 - 100% RH
- Resistant to UV radiation (special polymer)
- Resistant to salt environment

### Regulations and standards compliance

- CCE1304 - Certificate of safety compliant with standards for marine radio communication devices
- IEC60950 - Compliance with the safety standard for marine communication equipment
- IEC60945 - Marine environment standards compliance
- IP68 and IP69K - Water and dust protection grade standards
- EN301843 - Compliance with the electromagnetic compatibility standard



CE 1304