

# Data Sheet

## BlueTraker® HMI-7

### VMS touch display

The BlueTraker® HMI-7 terminal is a Human Machine Interface (HMI) for the BlueTraker®VMS system for fisheries monitoring. A 7" high resolution (800x480 pixels) touch-screen LCD is IP65/ NEMA4 salt water and dust protected. It is installed in a fishing vessel's wheel house or bridge to expand and improve the functionality of the BlueTraker®VMS system.

The BlueTraker® HMI-7 displays the following information:

- Position, speed and heading of a vessel;
- BlueTraker®VMS system operational status;
- GSM and Iridium signal quality;
- adds a range of optional functionalities (i.e. messaging...)

Provides:

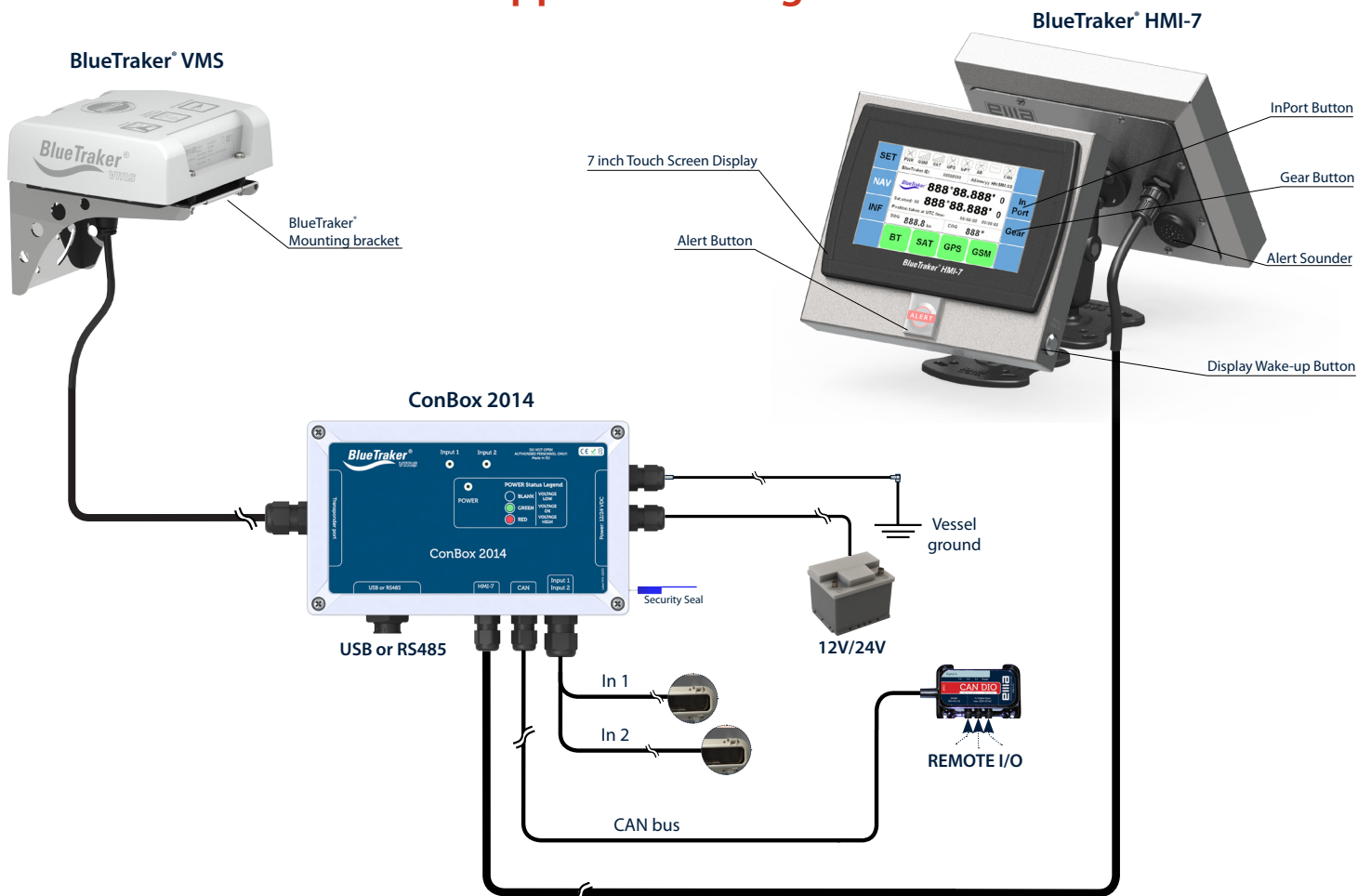
- InPort and Gear Up/Down controls;
- Alert Button functionality to report distress situation to FMC (Fisheries Monitoring Centre).



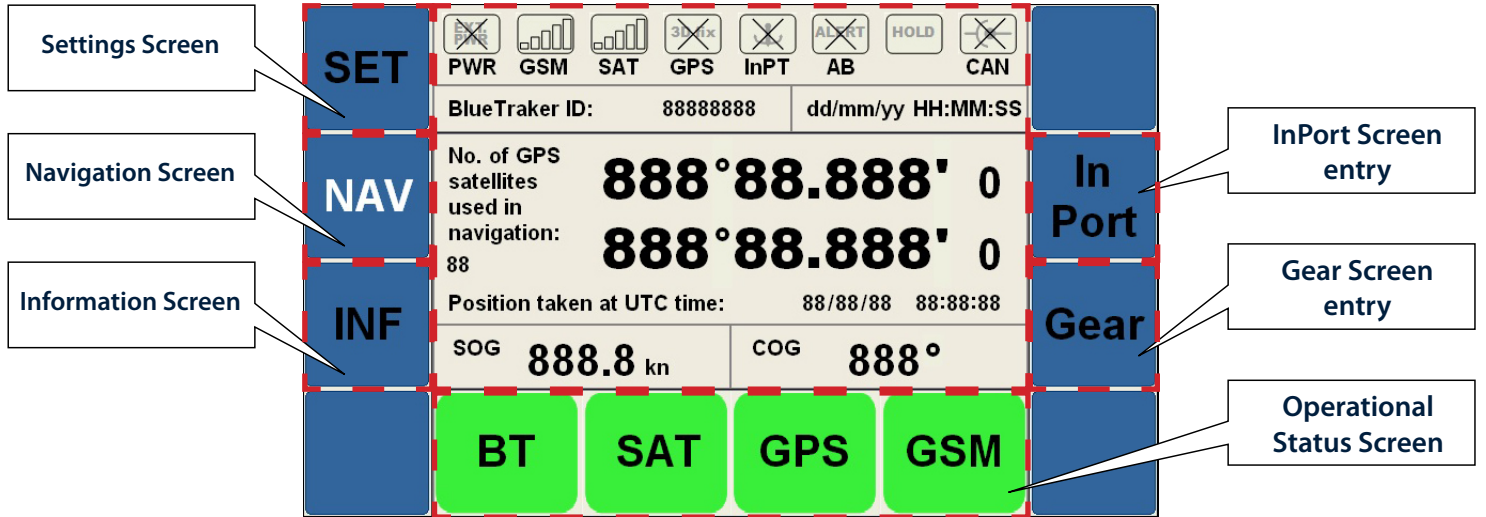
### Unique features are:

- ✓ IP65 stainless steel housing
- ✓ Easy installation using included RAM mount
- ✓ Real time position display and Iridium/GPRS signal indicator
- ✓ Illuminated and covered ALERT Button
- ✓ Acoustic notification on various events
- ✓ InPort button to notify FMC of docking in a home port
- ✓ Factory sealed cable set for connecting BlueTraker HMI 7 to ConBox 2014
- ✓ Day/Night display mode switch to adapt to day/night fishing

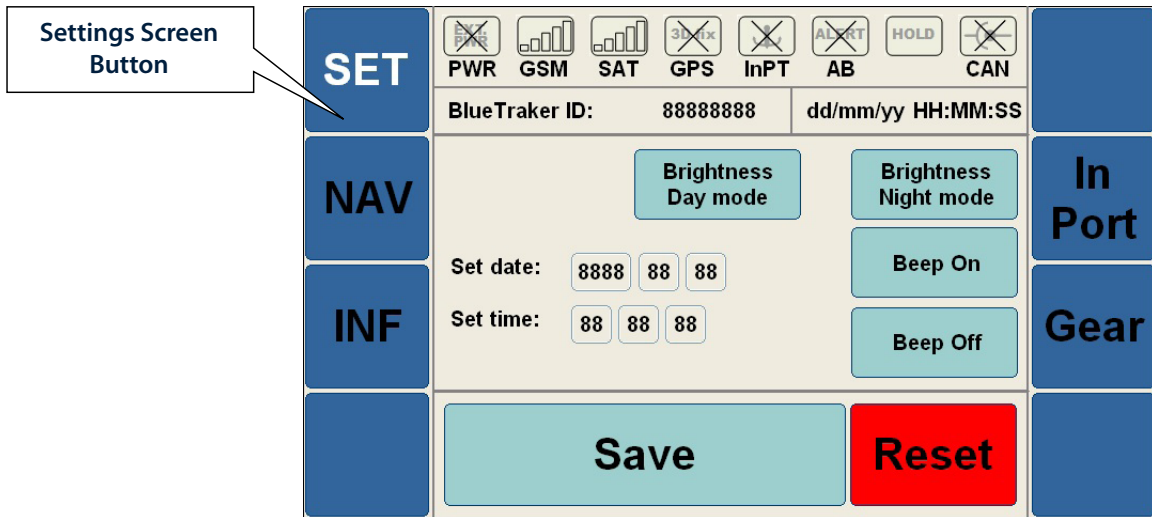
## Application Diagram



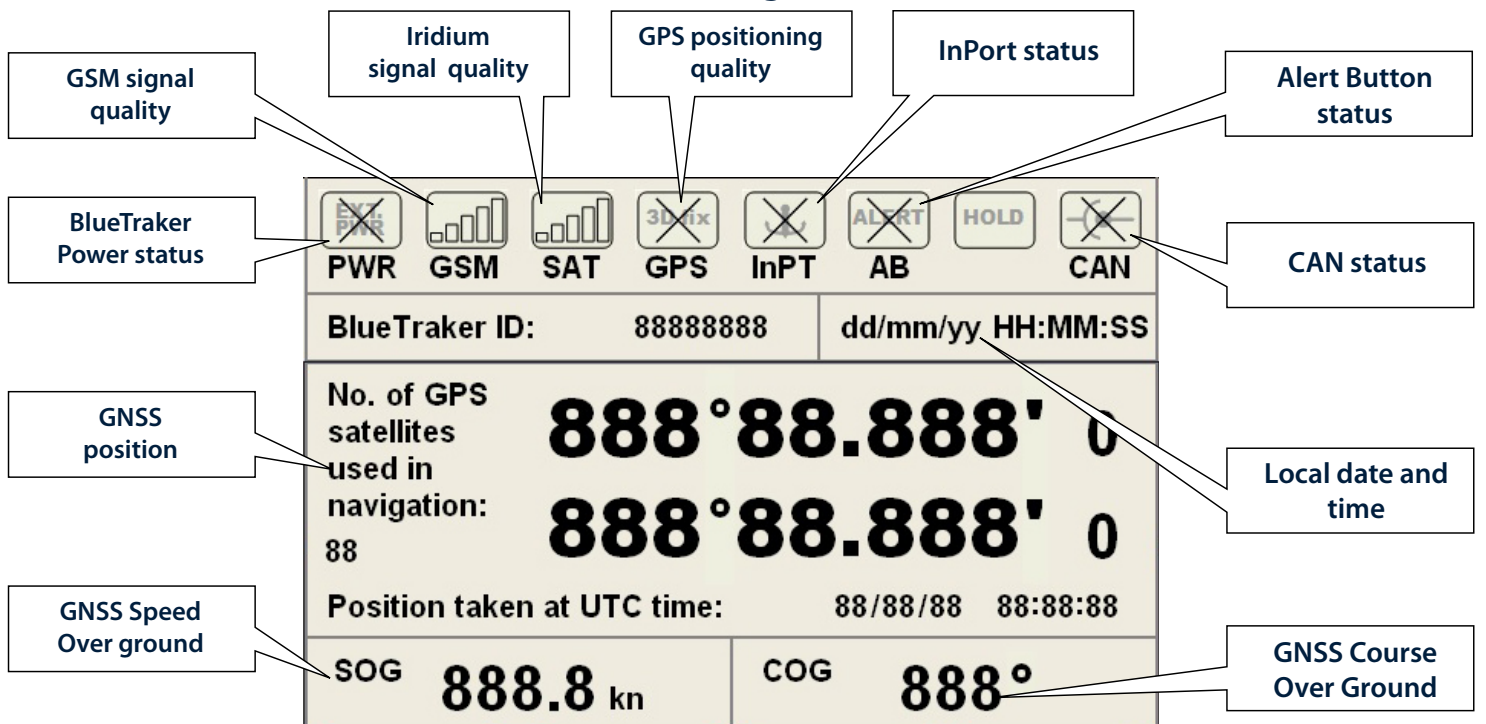
## BlueTraker® HMI-7 – Main Screen



## BlueTraker® HMI-7 – Settings Screen



## BlueTraker® HMI-7 – Navigation Screen details



## Information Screen

SET	PWR          GSM          SAT          GPS          InPT          AB          HOLD          CAN								
	BlueTraker ID: 88888888				dd/mm/yy HH:MM:SS				
NAV	Firmware version: 888.888 Build 88888								In Port
INF	No. of messages waiting to be sent over GSM: 888								
	No. of messages waiting to be sent over satellite: 888								
	Backup battery voltage: 8.8 V								
	BlueTraker power supply voltage: 88.8 V								Gear
	<div>BT</div> <div>SAT</div> <div>GPS</div> <div>GSM</div>								

Information Screen entry

## BlueTraker® HMI-7 – Operational Status Screen

SET	PWR          GSM          SAT          GPS          InPT          AB          HOLD          CAN								
	BlueTraker ID: 88888888				dd/mm/yy HH:MM:SS				
NAV	Module status								In Port
INF	BlueTraker: Running normal								
	Satellite modem: Network available, all messages sent								
	GPS receiver: Running normal								
	GSM modem: Network available, all messages sent								Gear
	<div>BT</div> <div>SAT</div> <div>GPS</div> <div>GSM</div>								

Operational Status Screen

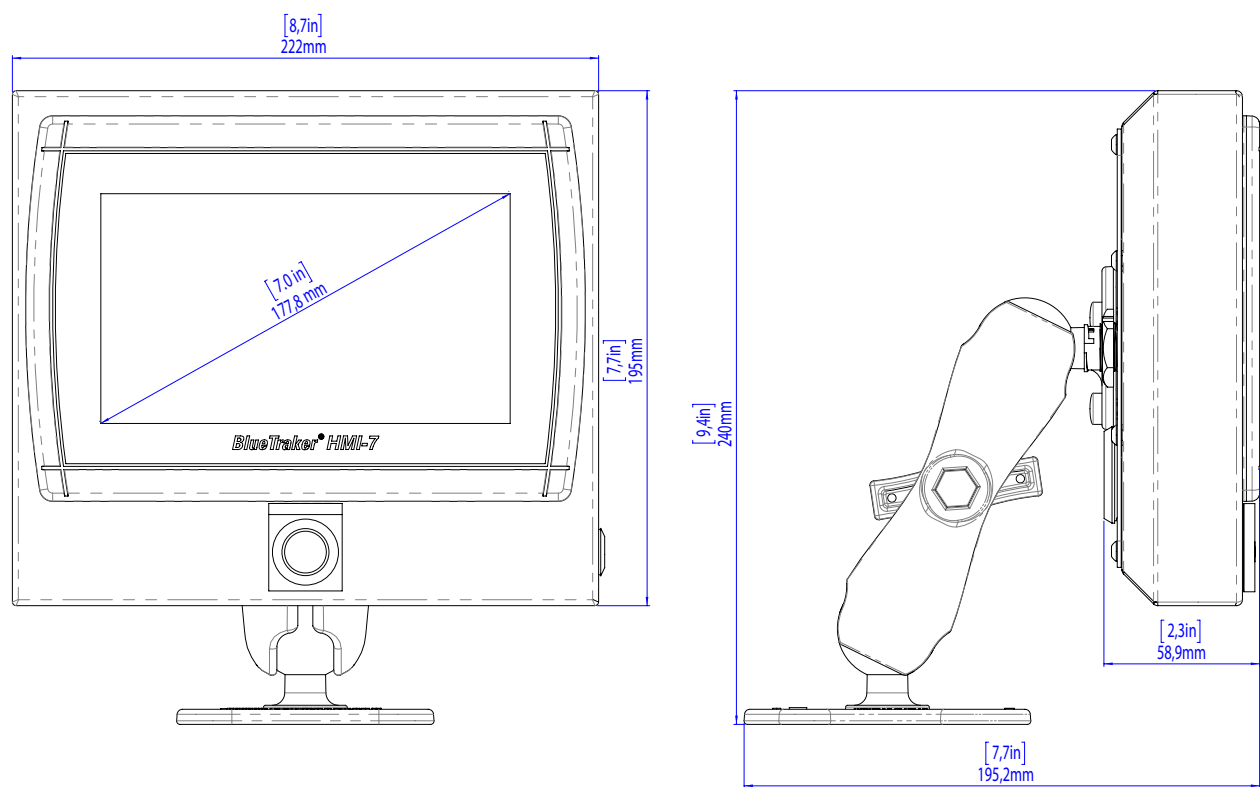
## BlueTraker® HMI-7 – InPort Screen and Gear Screen

SET	PWR          GSM          SAT          GPS          InPT          AB          HOLD          CAN								
	BlueTraker ID: 88888888				dd/mm/yy HH:MM:SS				
NAV	By pressing ENTER the BlueTraker will suspend position reporting until EXIT is pressed or vessel is moved from it's current position.								In Port
INF									
	<div>ENTER</div> <div>EXIT</div>								Gear

InPort Screen entry

Gear Screen entry

# BlueTraker® HMI-7 Technical Specification



Physical	Standard or Method	Parameter
Outer dimensions:		222 mm (width) × 195 mm (length) × 108 mm (height)
Weight (net/gross):		2.900 g/3.400g
Housing material:		AISI 316L marine grade stainless steel
Environmental specifications		
Dry heat storage temperature:	IEC 60945 (4th Ed.)	16 h at +70 °C
Dry heat operating temperature:	IEC 60945 (4th Ed.)	16 h at +55 °C
Damp heat operational temperature:	IEC 60945 (4th Ed.)	16 h at 40 °C and 93% RH
Low functional temperature:	IEC 60945 (4th Ed.)	Up to +70 °C
Level of water/dust ingress protection:	IEC 60529	IP65
Power supply requirements		
Power supply voltage range:		9 – 36 V DC
Average power consumption:		6 W
Current consumption:		Max. 2 A at -20 °C
Power supply protection		
Overvoltage lockout:		36 V DC
Max overvoltage :		150 V DC
Short circuit protection (For power supply voltages up to 60V DC):		2 A at -20 °C 1,5 A at +23 °C 1 A at +55 °C
Reverse polarity protection:	IEC 60945 (4th Ed.)	-36 V DC
Load dump protection (Ri = 2 Ohm, Td = 350 ms):	IEC 16750-2	200 V
Electrostatic Discharge (ESD) protection:	IEC 60945 (4th Ed.)	Level 3 (6kV Contact Discharge, 8kV Air Discharge)
Mechanical protection		
Vibration (sinusoidal):	IEC 60945 (4th Ed.)	Frequency sweep, then 2 hour endurance test for each of tree axis