



Installation & Operation Manual

TRUEcourse

Transmitting Heading Device

CASSENS & PLATH GmbH

Manufacturers of Nautical Instruments

Am Lunedeich 131

D-27572 Bremerhaven, Germany

Tel. +49 471 483 999 0

Fax +49 471 483 999 10

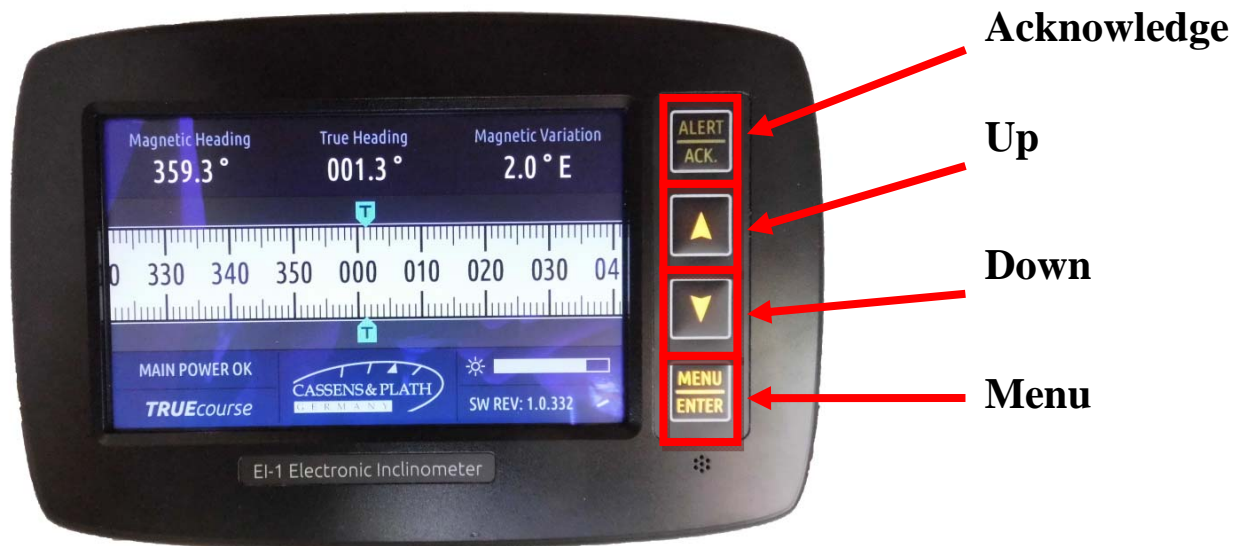
sales@cassens-plath.de

www.cassens-plath.de

Content

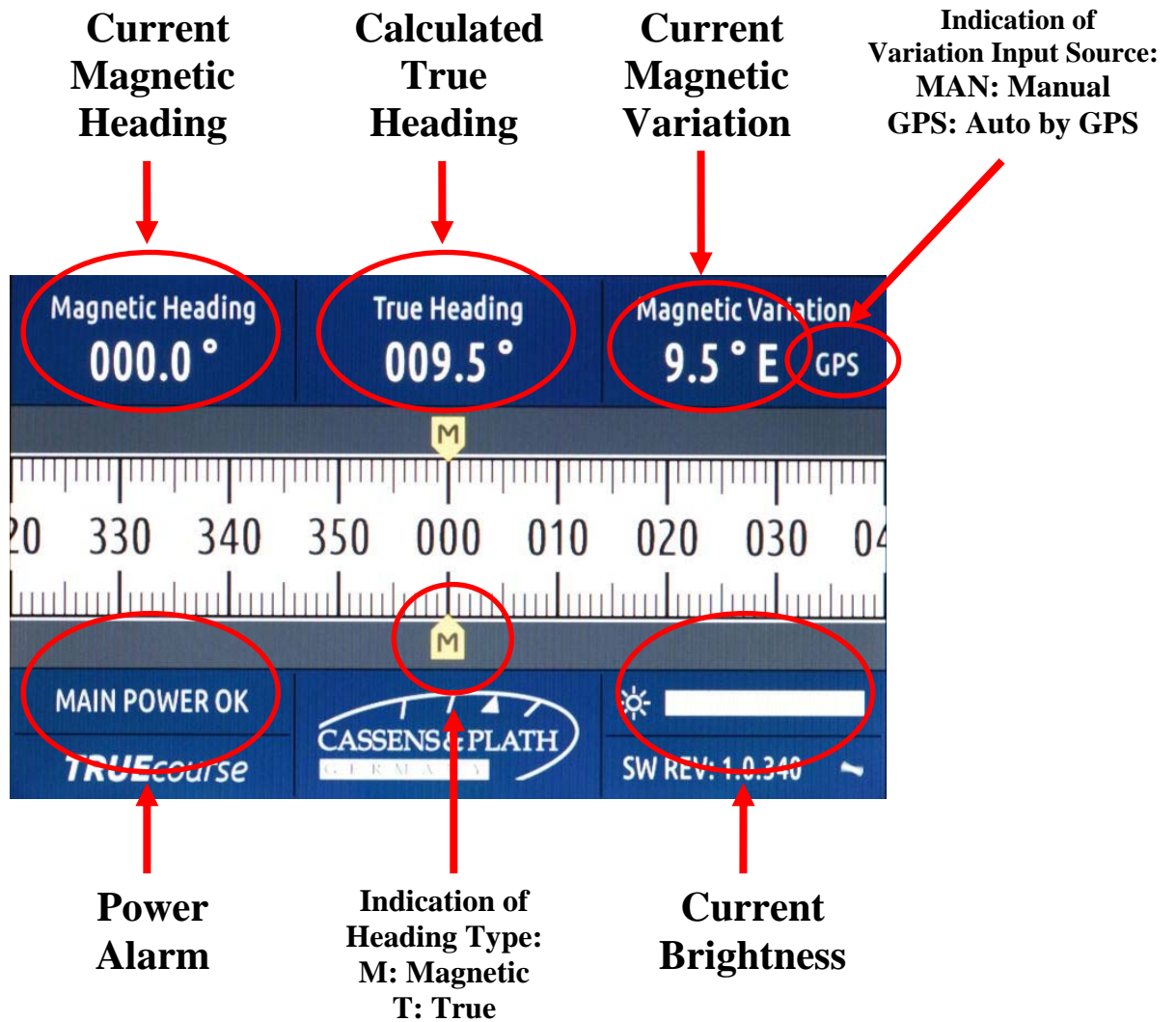
1) Front controls	3
2) Display, normal operation	4
3) Display, recorder view	5
4) Settings	6
5) Data input	7
6) Data output	7
7) Data input errors	8

1.) Front Controls:



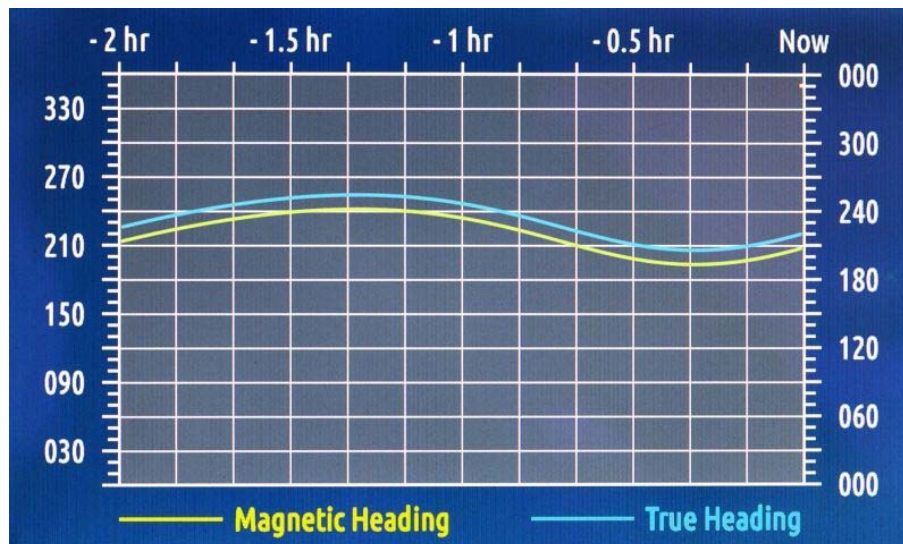
Alert/Ack:	Acknowledge Alarm
Up:	During normal operation dimmer brighter
Down:	During normal operation dimmer darker
Menu/Enter:	During normal operation toggle between recorder, settings and normal view

2.) Display, normal operation:



3.) Display, recorder view:

Press “Menu/Enter” once to enter recorder view.



History of magnetic heading will be displayed yellow, true heading will be displayed blue.

“Up”/ “Down” scrolls through history from past 2 hours up to past 24 hours.

Press “Menu/Enter” twice to exit recorder view.

4.) Settings:

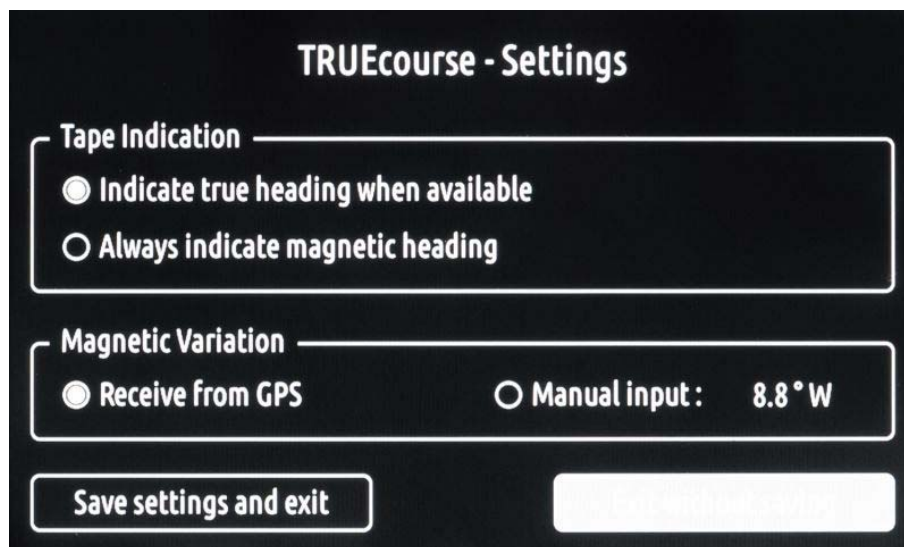
To enter setup screen press “Menu” twice.

Select menu item with “Up”/ “Down” and accept with “Menu”.

“Save settings and exit” will save changes permanently and switch back to normal operation.

“Exit without saving” will only switch back to normal operation.

TRUEcourse will automatic switch back to normal operation when no button is pressend for more then 30 seconds.



“Tape Indication”

When “Indicate true heading when available” is chosen the main display will show true heading. In this mode variation has to be received by GPS or has to be adjusted manually.

When “Always indicate magnetic heading” is chosen, magnetic heading will be displayed.

These settings have no effect on data output. Data output is always true heading, if magnetic Data output is required use NETcourse output .

5.) Data Input:

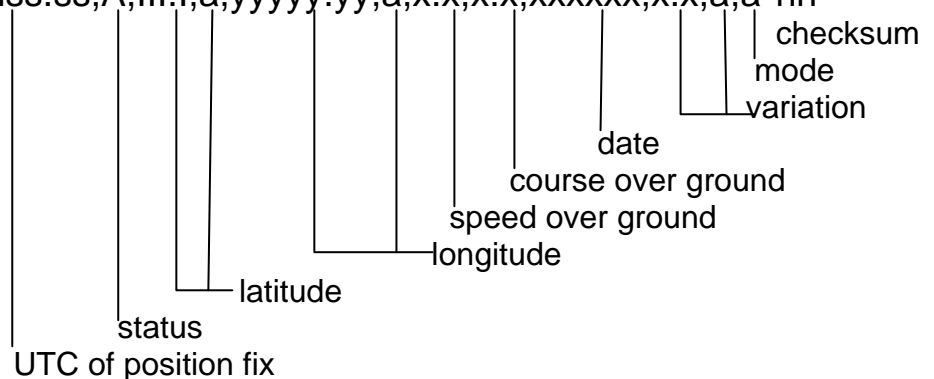
Valid data format for magnetic heading is:

\$HCHDG,xxx.x,,,*cs

- xxx.x for current heading with one decimal and without leading zero
- cs for checksum
- 38400 baud, 8 databits, no parity and 1 stopbit
- min. 10 repeats per second

Valid data format for variation is:

\$GPRMC,hhmmss.ss,A,III.I,a,yyyy.yy,a,x.x,x.x,xxxxxx,x.x,a,a*hh



6.) Data output:

Data output format for true heading is:

\$HCHDT,xxx.x,T*cs

- xxx.x for true heading with one decimal and without leading zero
- cs for checksum
- 38400 baud, 8 databits, no parity and 1 stopbit
- 50 repeats per second

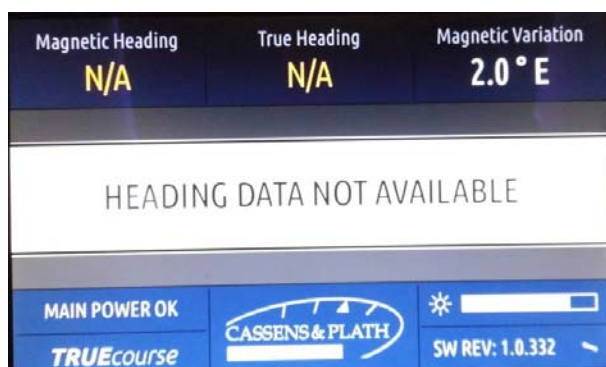
7) Data input errors:

When data input is lost, wrong or no data is received for more than 3 seconds TRUEcourse will switch into alarm condition.

Acoustic alarm will appear, and the alarm lamp will blink.

After acknowledge alarm by pressing "Ack" the acoustic alarm will stop and alarm lamp will shine steady.

When data for magnetic heading is invalid or lost, true heading can't be calculated. No heading will be displayed.



No data output is available!

When data for variation is invalid or lost, true heading can't be calculated. Display switches to magnetic heading.



Indication for magnetic heading

Data output is available when variation is set up manually.