



### Main Features:

Universal digital repeater DR-109 is intended for NMEA 0183 messages visual display (received from NMEA-sources).

Easy tuning to any kind of NMEA data (speed, rate of turn, heading, traveled distance) is the main DR-109 advantage.

Two available serial interfaces of the device (RS-232 and RS-422/485) lighten its integration.

### Technical Description:

- Displayed NMEA 0183 messages number: more than 20.
- Serial display possibility up to three separate NMEA 0183 data types on the built-in LED display.
- Display's brightness tuning (embedded dimmer).
- 2 input channels (RS-232/RS-422 interfaces).
- 10 stored user's profiles variants.

## Device's interfaces:

Interfaces type: RS-232 и RS-422  
(2 input channels)

Baudrate: up to 115200 bps

## Receiving NMEA 0183 data:

\$xxDBK	\$xxDBT	
\$xxDPT	\$xxHDG	\$xxHDT
\$xxMTW	\$xxMWV	\$xxROT
\$xxRSA	\$xxVBW	\$xxVDR
\$xxVHW	\$xxVLW	\$xxWCW
\$xxVPW	\$xxVTG	
\$xxVWR	\$xxZDA	
\$xxZFO	\$xxZTG	

xx – any source of NMEA 0183 data

## Approvals:



Type approval certificate of Russian Maritime Register Of Shipping

## Main features:

- Serial display up to three individual NMEA 0183 data messages on the built-in LED display.
- Rate of turn (ROT) independent displaying on the built-in LEDs bar.
- Up to 10 stored variants of user's profiles (saved in non-volatile device's memory)
- Embedded display's brightness regulator (dimmer)

## General Characteristics:

Power voltage:	18..36 VDC
Working temperature:	-25..+55°C
Storage temperature:	-55..+70°C
Overall dimensions:	206x196x42
Weight:	1,5 kg

## Overall Dimensions Outline Drawing:

