

GDL NS-1106 NMEA Buffer

Installation and Operating Guide | 1 Input / 6 Outputs | English Edition

1. PRODUCT OVERVIEW

The GDL NS-1106 NMEA Buffer is designed to safely multiply and isolate NMEA 0183 or RS-422/RS-232 data from marine navigation equipment. Data from one talker is distributed to as many as six listeners with high isolation protection. Galvanic isolation in the power and communication ports protects the source and listening devices against overvoltage, interference and ground-loop damage.

2. KEY FEATURES

- One NMEA 0183 / RS-422 input distributed without loss to six independently isolated outputs.
- Galvanic isolation between input and output lines protects sensitive navigation equipment against electrical noise.

3. TECHNICAL SPECIFICATIONS

PARAMETER	TECHNICAL DETAIL / VALUE
Manufacturer	GDL Marine Technology
Model	NS-1106 NMEA Buffer
Input ports	1 opto-isolated RS-232 / RS-422
Output ports	6 isolated RS-232 / RS-422
Communication speed	1200 to 115200 bps
Operating voltage	24V DC nominal; 9-36V DC wide input
Overvoltage protection	Protected up to 37V DC; reverse-polarity protected
Power consumption	0.4 W at 24V DC
Galvanic isolation	Power supply: 1.5 kV DC Signal input/output: 5 kV RMS opto-isolation
Dimensions	150 x 105 x 30 mm
Mounting	Wall / panel mounting

4. CONNECTION DEFINITIONS

- Supply input: +9-36V DC and GND.
- Talker input: NMEA CH1 in+ / NMEA CH1 in-.
- Listener outputs 1-6: Out 1 (A/B) through Out 6 (A/B).