GDL NS-2212C NMEA Buffer

Installation and Operating Guide | 2 Inputs / 12 Outputs | English Edition

1. PRODUCT OVERVIEW

The GDL NS-2212C safely multiplies and isolates NMEA 0183 or RS-422/RS-232 data from marine navigation equipment. It distributes data from two independent talkers to as many as twelve listeners. Galvanic isolation protects signal sources and listener devices against overvoltage, interference and ground loops.

2. INTELLIGENT OPERATING MODES

- Auto-Switching Mode: if the priority input is absent for three seconds, the unit changes to input 2 and distributes it to all twelve outputs.
- Dual Independent Mode: the unit works as two separate buffers; input 1 feeds outputs A1-A6 and input 2 feeds outputs B1-B6.

3. TECHNICAL SPECIFICATIONS

PARAMETER	TECHNICAL DETAIL / VALUE
Manufacturer	GDL Marine Technology
Model	NS-2212C NMEA Buffer
Input ports	2 opto-isolated RS-232 / RS-422
Output ports	12 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	0.6 W at 24V DC
Galvanic isolation	Power supply: 1.5 kV DC | Signal input/output: 5 kV RMS opto-isolation
Dimensions	215 x 150 x 30 mm
Mounting	Wall / panel mounting with four screws

4. DIP-SWITCH MODE SETTINGS

PARAMETER	TECHNICAL DETAIL / VALUE
SW2: ON	Auto-Switching - changes from signal 1 to signal 2 after a 3-second loss; all 12 outputs
SW2: OFF	Dual Independent - input 1 to A1-A6; input 2 to B1-B6

5. CONNECTION DEFINITIONS

- Supply: +9-36V DC and GND.
- Talker 1: NMEA CH1 in+ / in-.
- Talker 2: NMEA CH2 in+ / in-.
- Group A listeners: Out A1 through Out A6.
- Group B listeners: Out B1 through Out B6.