NMEA 2000 STANDARD MONITORING

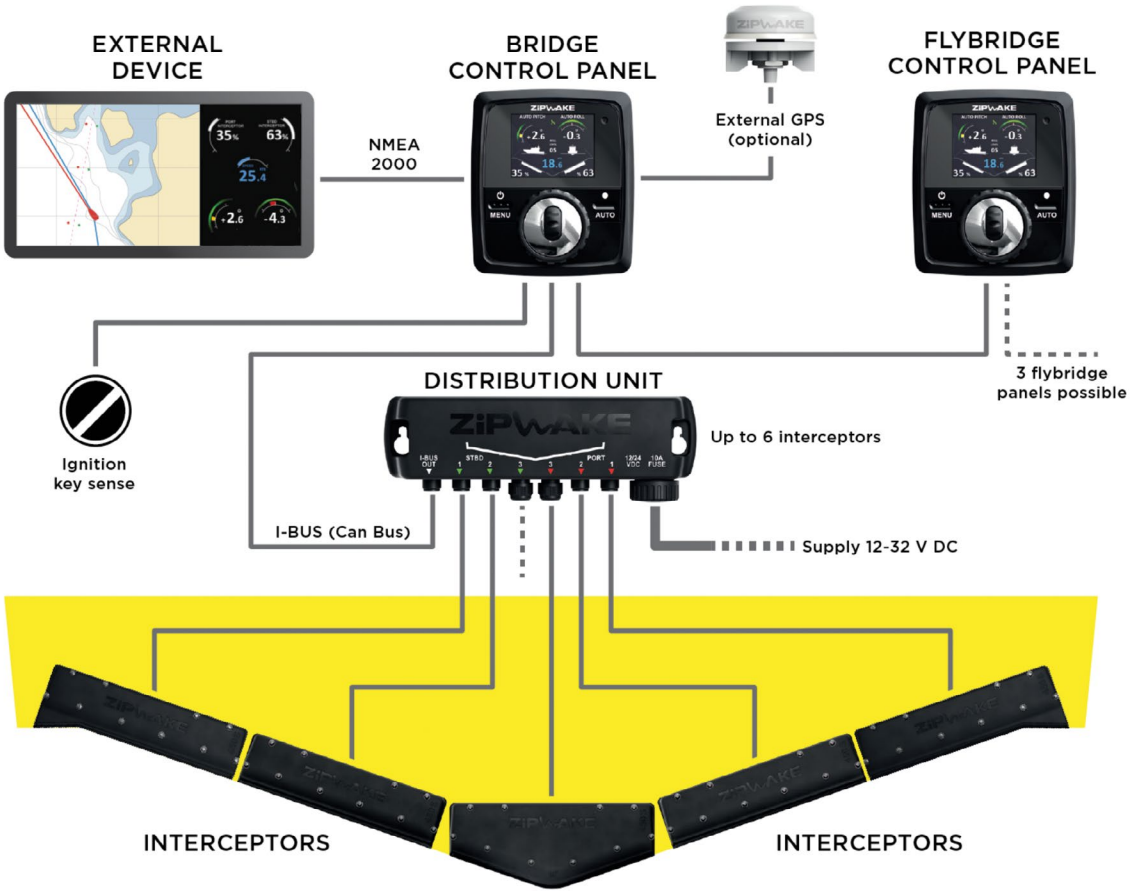
DYNAMIC TRIM CONTROL SYSTEM

SERIES S



ZiPWAKE

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NMEA 2000 MONITORING OVERVIEW

This document describes the supported NMEA 2000 Parameter Group Numbers (PGNs) used for communication between the Zipwake Dynamic Trim Control System Series S and other instruments over an NMEA 2000 network.

NETWORK CONNECTION

Zipwake can be connected to an NMEA 2000 backbone network via the connector marked “NMEA 2K” on the back-side of the Control Panel. Zipwake will automatically start transmitting data messages according to the NMEA 2000 standard. In system installations with more than one Control Panel, the Zipwake system can be connected to the network from any Control Panel, but there shall be only one point of connection.

EXTERNAL MONITORING

Zipwake transmits standard NMEA 2000 messages to enable monitoring of the Zipwake system on external devices, for instance monitor the interceptor positions on chartplotter. The system information that can be visualized on external devices differs between device manufacturers and device models, refer to each devices’ manual for details. The standard PGN messages transmitted by Zipwake are listed in Table 1.

EXTERNAL GPS SOURCE

Zipwake receives standard GPS data messages to support use of external GPS source on the NMEA 2000 network. Zipwake automatically selects the GPS source with best reception when more than one GPS source is connected to the network. The standard PGN messages received by Zipwake are listed in Table 2.

Table 1 – Standard PGNs transmitted by Zipwake

PGN	Name	Comment
59392	ISO Acknowledgment	NMEA protocol data
60160	ISO Transport Protocol, Data Transfer	NMEA protocol data
60416	ISO Transport Protocol, Connection Management - RTS group function	NMEA protocol data
60928	ISO Address Claim	NMEA protocol data
126464	PGN List – Received/Transmit PGNs group function	Zipwake data
126993	Heartbeat	Zipwake data - 5 second update interval
126996	Product Information	Zipwake product information
127251	Rate of Turn	Zipwake data
127257	Attitude	Zipwake data -Pitch, roll and yaw angles
129026	COG & SOG, Rapid Update	Zipwake data -From selected GPS source
130576	Trim Tab Status	Zipwake data -Current interceptor positions

Table 2 – Standard PGNs received by Zipwake

PGN	Name	Comment
59904	ISO Request	NMEA protocol data
60160	ISO Transport Protocol, Data Transfer	NMEA protocol data
60416	ISO Transport Protocol, Connection Management - RTS group function	NMEA protocol data
60928	ISO Address Claim	NMEA protocol data
65240	ISO Commanded Address	NMEA protocol data
129026	COG & SOG, Rapid Update	Received from GPS source
129029	GNSS Position Data	Received from GPS source
129539	GNSS DOPs	Received from GPS source
129540	GNSS Sats in View	Received from GPS source


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