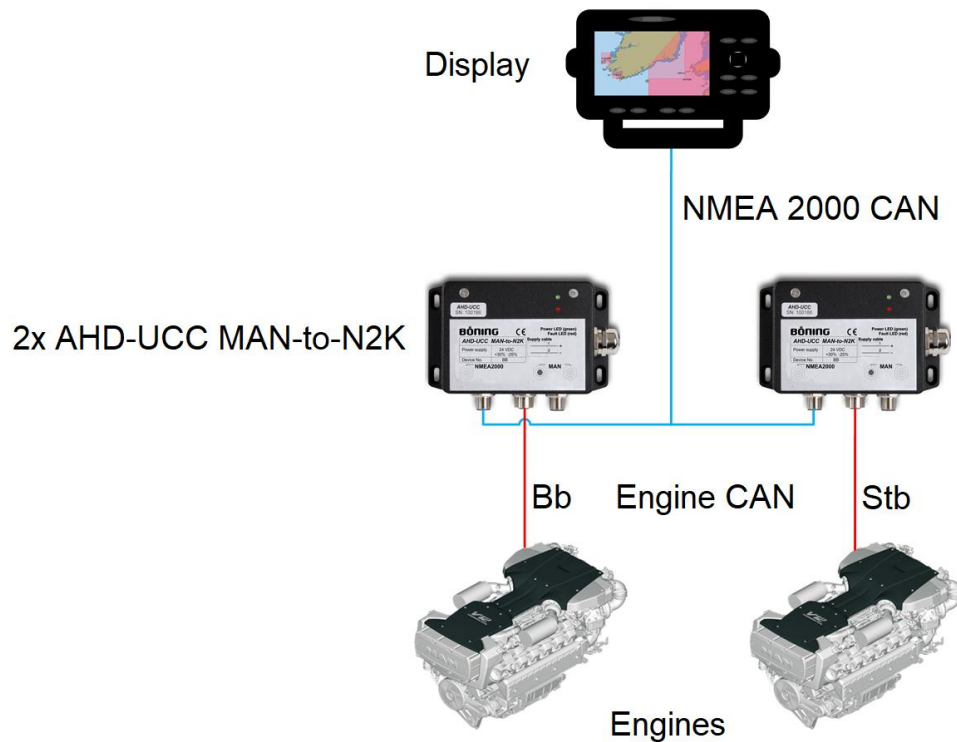


AHD-UCC MAN-to-N2K

Engine to NMEA 2000 Data Conversion



- **Conversion of MAN[®] engine data to NMEA 2000, for example for the display on plotters**
- **Supports Common Rail (CR and VNeu) with EDC7 engine control unit as a standard, as well as EDC5 engines (via special order)**
- **Adaptation of standard diesel engines from other manufacturers (e.g. CAT, MTU, John Deer, Cummins) via special configuration on request**

AHD-UCC MAN-to-N2K converts engine data of common engine types to NMEA 2000 messages, for example for the display on NMEA 2000 compatible plotters.

The AHD UCC MAN to N2K standard versions (Bb and Stb.) support the listed MAN marine engines with EDC7 engine control unit (CR and VNeu series). Other MAN engines can be adapted on request.

Other device versions that support the J1939 standard protocol and enable connection to engines from other manufacturers (e.g. CAT, MTU, John Deer, Cummins) are available on request. If required, please contact our Böning Service.

AHD-UCC MAN-to-N2K provides 2 DeviceNet CAN interfaces for the connection to the engine system.

The converted engine data is passed on to the NMEA 2000 system via a further, galvanically isolated CAN interface.

AHD-UCC MAN-to-N2K is available in 2 variants, one for a port engine and one for a starboard engine.

MAN Engine types covered by AHD UCC MAN-to-N2K standard version

D 0836 LE 423	D 2842 LE 422	D 2848 LE 422	D 2862 LE 426	D 2868 LE 426
	D 2842 LE 423	D 2848 LE 423	D 2862 LE 436	D 2868 LE 436
D 2676 LE 423	D 2842 LE 433	D 2848 LE 426	D 2862 LE 446	
D 2676 LE 443	D 2842 LE 443	D 2848 LE 436	D 2862 LE 456	D 2876 LE 423
	D 2842 LE 453		D 2862 LE 476	D 2876 LE 426
D 2840 LE 422				D 2876 LE 433
D 2840 LE 423				

NMEA 2000 Messages

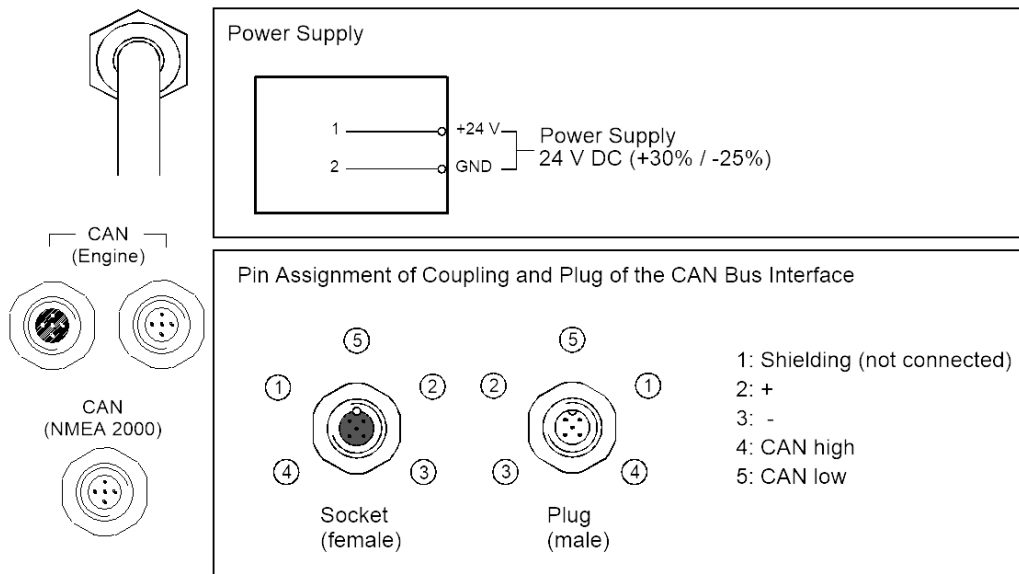
Field Name	Identifier (PGN)	Identifier Name
Engine Speed	127488	Engine Parameters, Rapid Update
Engine Boost Pressure	127488	Engine Parameters, Rapid Update
Engine oil pressure	127489	Engine Parameters, Dynamic
Engine oil temp	127489	Engine Parameters, Dynamic
Engine temp.	127489	Engine Parameters, Dynamic
Alternator potential	127489	Engine Parameters, Dynamic
Fuel rate	127489	Engine Parameters, Dynamic
Total engine hours	127489	Engine Parameters, Dynamic
Engine coolant pressure	127489	Engine Parameters, Dynamic
Fuel Pressure	127489	Engine Parameters, Dynamic
Percent Engine Load	127489	Engine Parameters, Dynamic
Percent Engine Torque	127489	Engine Parameters, Dynamic
Transmission gear	127493	Transmission Parameters, Dynamic
Transmission oil pressure	127493	Transmission Parameters, Dynamic
Transmission oil temperaure	127493	Transmission Parameters, Dynamic
Trip fuel used	127497	Trip Fuel Consumption (Nur VNeu)
Rated engine speed	127498	Engine Parameters, Static
Atmospheric Pressure	130314	Actual Pressure
Exhaust Gas Temperature	130316	Temperature, Extended Range

Parameter Group Numbers

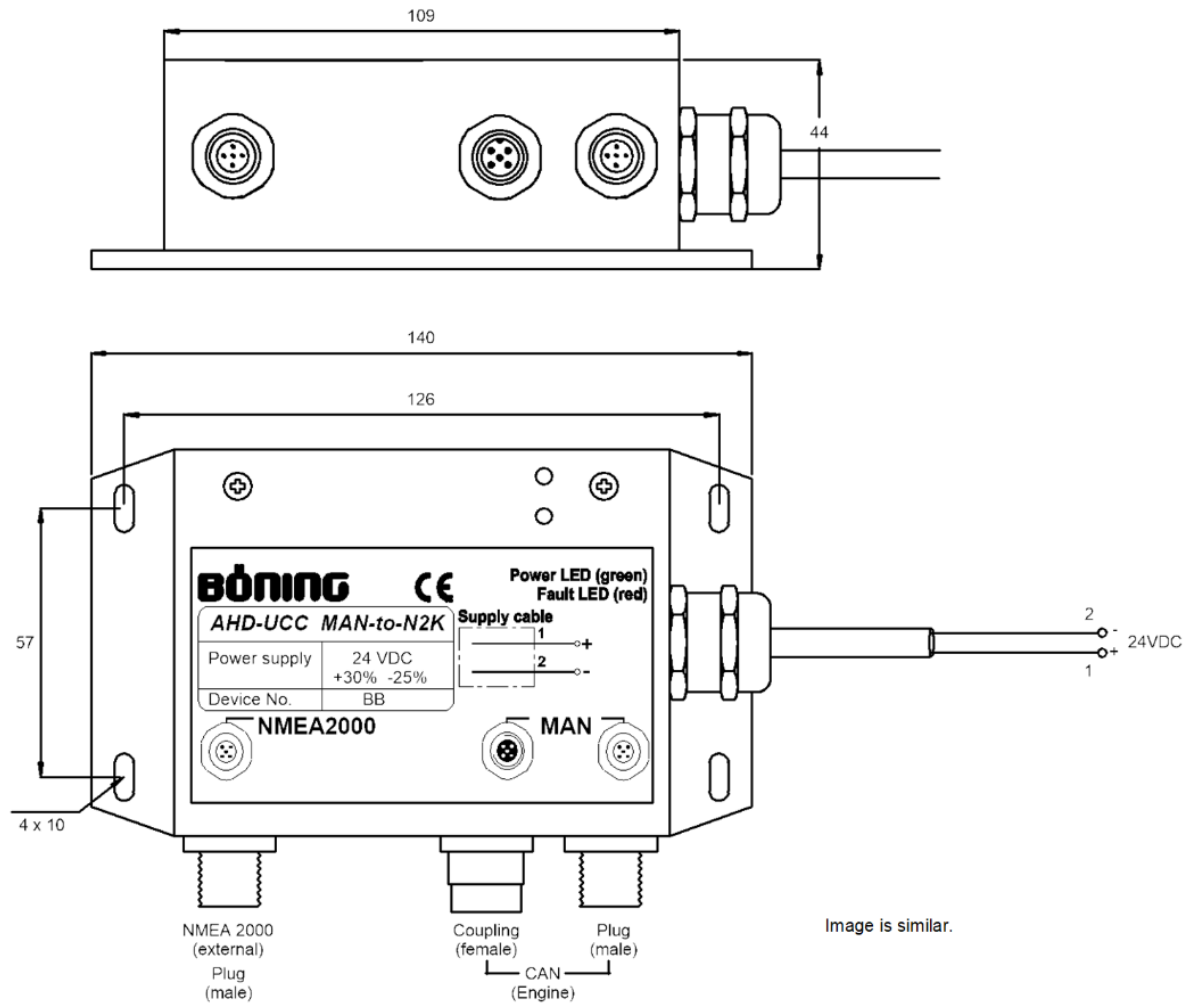
PGN	Identifier Name
59392	ISO Acknowledgment
60160	ISO Transport Protocol, Data Transfer
60416	ISO Transport Protocol, Connection Management
60928	ISO Address Claim
126208	NMEA - Request/Command/Acknowledge group function
126464	PGN List - Transmit/Received PGN's group function
126983	Alert

PGN	Identifier Name
126985	Alert Text
126993	Heartbeat
126996	Product Information
126998	Configuration Information
127488	Engine Parameters, Rapid Update
127489	Engine Parameters, Dynamic
127493	Transmission Parameters, Dynamic
127497	Trip Fuel Consumption (Vneu only)
127498	Engine Parameters, Static
130314	Actual Pressure
130316	Temperature, Extended Range

View and Connections



Dimensions



Technical Data

Dimensions W x H x D	140 x 82 x 44 mm
Weight	Ca. 0.45 kg
Operating temperature	-25°C ... +70°C
Storage temperature	-50°C ... +85°C
Protection class	IP 56
Power supply	24 V DC (+30%/-25%)
Current consumption, max.	55 mA
Interfaces	2 x CAN, input and output for connection to the engine system plug and socket DeviceNet compliant 1 x CAN, output for connection to the NMEA 2000 system plug DeviceNet compliant
Approvals	-
Item numbers	20648 Standard version for port engine (see list above) 20649 Standard version for starboard engine (see list above) Versions adapted for other engine types on request