

# NMEA 2000 Adaptor

Upgrade NMEA 0183 equipment to NMEA 2000!

# NK-80

# Extend NMEA0183 Devices into NMEA2000 Network

AMEC NK-80 is a gateway between NMEA 0183 electronics devices and NMEA 2000 device/network. NK-80 allows users to connect NMEA 2000 network with their existing NMEA 0183 devices.

ATEL WESCON

# Support Latest NMEA2000 Sentences

AMEC NK-80 supports wide range of NMEA 2000 sentences with latest NMEA association released documents.

# **User-friendly Configuration Utility**

AMEC NK-80 also provides a configuration which allow user to modify NK-80 baud rate and manage/filter NMEA2000/NMEA0183 sentences easily.

- NMEA 2000 Certified
- Upgrade NMEA 0183 equipment to NMEA 2000
- Conversion between NMEA 2000 and NMEA 0183
- Full NMEA 2000 and NMEA 0183 compliance
- Compact size, easy for installation

- ▶ High-Performance 32-bit RISC CPU
- Build-in memory storage
- Configurable through a serial connection
- Fully galvanically isolated for electrical spike protection

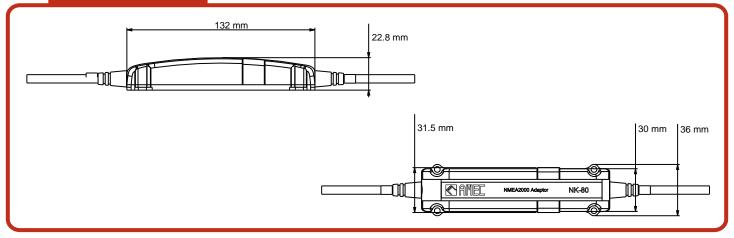
# KEY FEATURES

# APPLICATION

- Leisure Boat
- Fishing Boat
- NMEA0183 devices/sensors
- Navigation Software

Chartplotter

MECHANICAL



## **SPECIFICATIONS**

## APPLICABLE STANDARDS

NMEA 2000 standard version1.2 (2004)

## CERTIFICATIONS

NMEA 2000 ®

## NMEA 2000 CAN Bus line Transmitter

Parameter	Conditions	Min.	Max.
Recessive bus voltage	VTXD = VDD; no load.	2.0V.	3.0V.
Dominant bus voltage NET-H	VTXD = 0.8V	2.75V	4.5V
Dominant bus voltage NET-L	VTXD = 0.8V	0.5V	2.25V
Recessive differential output voltage	VTXD = 2V; no load	-500 mV	50 mV
Dominant differential output voltage	40Ω < RL < 60Ω	1.5V	3.0V

## NMEA 2000 CAN Bus line Receiver

NET-H, NET-L common-mode input resistance	typical 100 KΩ
Differential input resistance	typical 100 KΩ

#### Input/Output

Configurable Baud rate 4,800, 9,600, 38,400 (default), 57,600, 115,200 bps

## POWER SUPPLY

Supply Voltage from CAN Bus

12VDC / 24VDC (Typical)

### **ELECTRICAL**

NMEA 2000 Load Equivalency Number (LEN) 1 (under 50 mA)

#### ENVIRONMENTAL

Operation Temperature	-20°C~+55°C
Storage Temperature	-25°C~+70°C
Water Proofing	IP54
Humidity	0~80%RH

#### PHYSICAL

Length	132 mm	
Width	30 mm	
Height	22.8 mm	
Cable Lengths	NMEA 2000 cable: 0.1m	
	NMEA 0183 cable: 1 m	
Weight	< 150 g	

Note: Specifications are subject to change without prior notice.



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