

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.

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

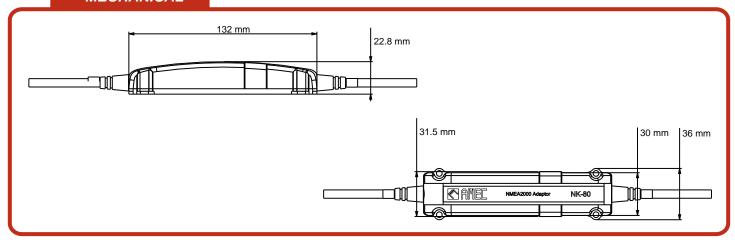
KEY FEATURES

APPLICATION

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

- Fishing Boat
- 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	$40\Omega < RL < 60\Omega$	1.5V	3.0V

NMEA 2000 CAN Bus line Receiver

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

Input/Output

Configurable 4,800, 9,600, 38,400 (default), Baud rate 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

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Weight < 150 g

Note: Specifications are subject to change without prior notice.



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