NMEA 2000 Adaptor

NK-80

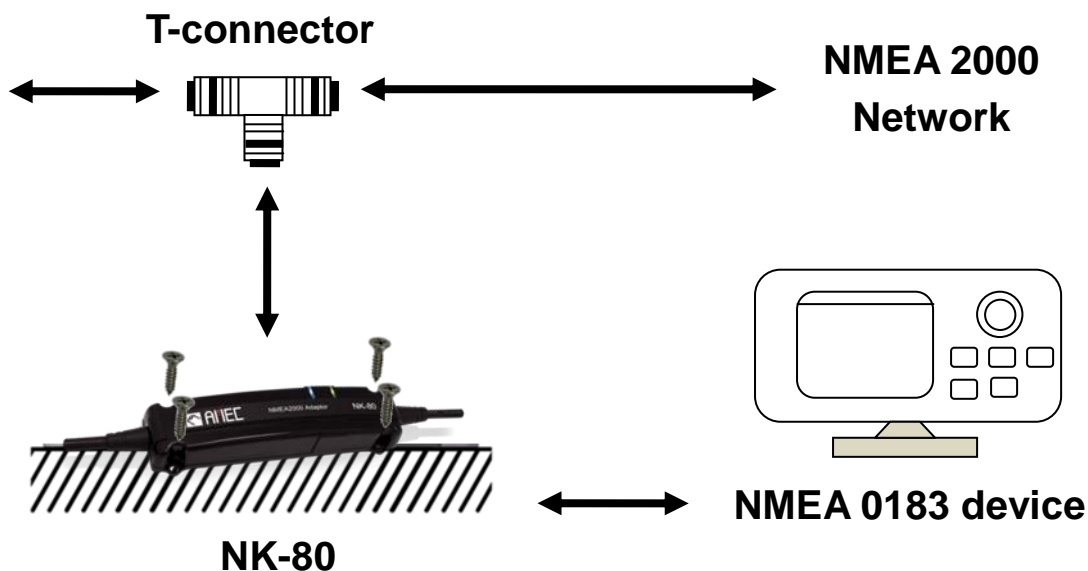# - Quick Start Guide -

1. Installation Precautions

1. Installation should proceed in a safe environment and should not have direct contact with rain or splashing water.
2. Do not place or install the equipment beneath or near any container that filled with water or liquid.
3. Do not place or install the equipment where it is easily tripped, stepped on, or kicked at.
4. Do not place or install the equipment near any generator or engine.
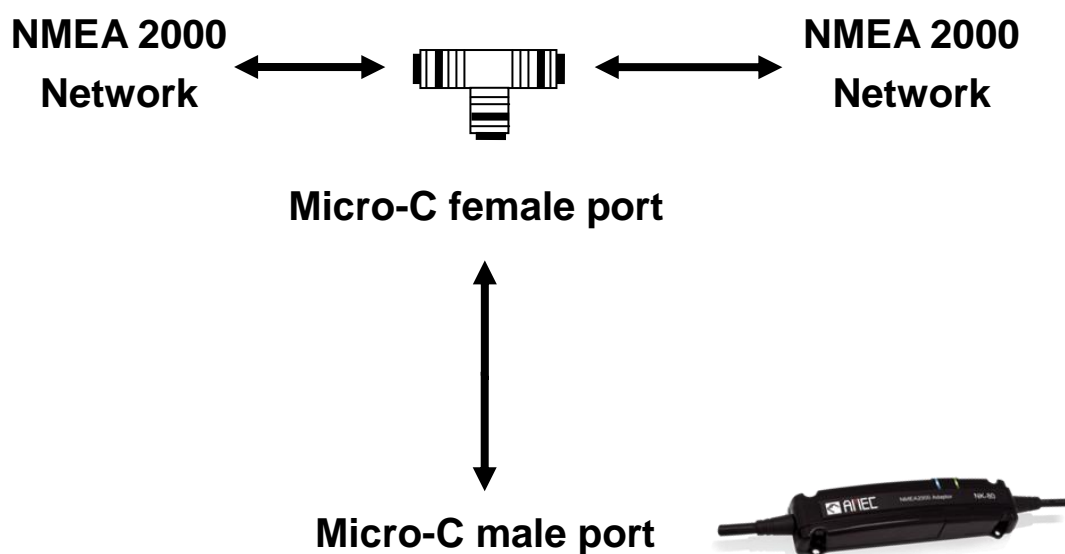
2. Installation Procedures

Step 1: Ensure all items are in the package

Photo	Description	Qty
	AMEC NK-80 NMEA 2000 adaptor	1
	Screw M4	4
	Manual	1
	CD	1

Step 2: Use 4 screws to mount NK-80 in a flat surface between NMEA 0183 device and T-connector.

T-connector

NMEA 2000 Network

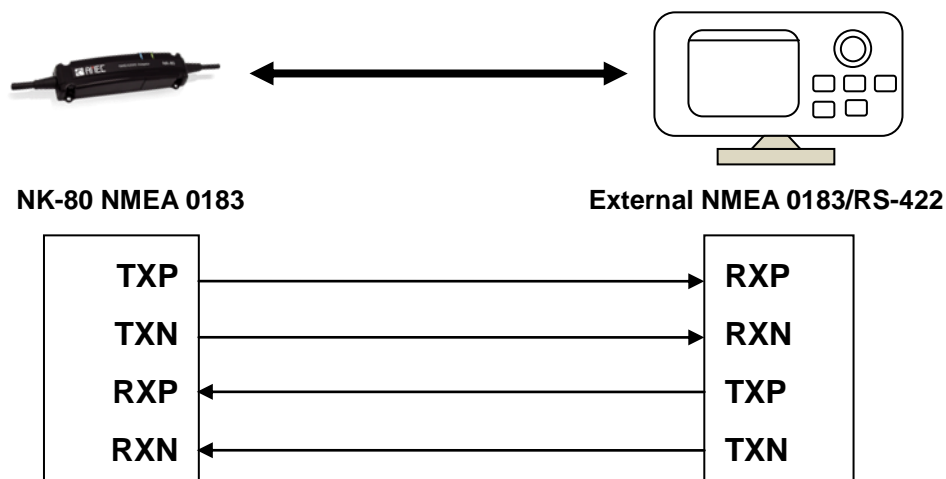**NMEA 0183 device**

NK-80

Step 3: Connect NK-80 Micro-C male port to T-connector Micro-C female port. If the provided cable length 0.1M is not enough, use an extension cable with proper length for connection.

NMEA 2000 Network

NMEA 2000 Network

Micro-C female port

Micro-C male port

Step 4: Ensure NK-80 NMEA 0183 wiring information

Pin	Wire color	Name	Function
**NK-80 NMEA 0183 wiring information**			
1	RED	TXP	Positive($+$); NMEA 0183 Data output
2	GREEN	TXN	Negative ($-$); NMEA 0183 Data output
3	BLACK	RXP	Positive($+$); NMEA 0183 Data input
4	BLUE	RXN	Negative ($-$); NMEA 0183 Data input
5	SHIELD	GND	Ground

Step 5: Connect NK-80 NMEA 0183 cable to NMEA 0183 device with proper wiring.

NK-80 NMEA 0183   External NMEA 0183/RS-422

NK-80 NMEA 0183	External NMEA 0183/RS-422
TXP →	RXP
TXN →	RXN
RXP ←	TXP
RXN ←	TXN

NOTE: Please ensure the external device is fully NMEA 0183 compliant.

Step 6: Verify the 2 onboard LED indicators. If they start flashing in blue and green color, the device is operating normally. If not, please verify connection again or check manual for explanation.

LED 2

LED 1

NOTE:

LED 1 indicates receiving NMEA 2000 messages with blue flash light. LED 2 indicates receiving NMEA 0183 messages with green flash light.