

PRO-NDC-1E

NMEA 0183 INTELLIGENT MULTIPLEXER

The Actisense NMEA 0183 Multiplexer(PRO-NDC-1E) is a type approved, intelligent and robust platform that cures many interconnectivity headaches.

Introducing the Actisense® PRO-NDC-1E, the new, intelligent, type approved PRO range multiplexer.

The PRO-NDC-1E is reliable, robust and provides industry leading isolation on all inputs and outputs as standard, so that connected devices safely avoid hazardous ground loops, the number one cause of product failure in NMEA 0183 networks.

The five NMEA 0183 inputs can be routed to either of the two NMEA 0183 outputs, providing a highly customisable network.

A bi-directional serial port allows for communication between the PRO-NDC-1E and a PC using the Actisense USB-serial converter: USBKIT-PRO (supplied seperately), and the Ethernet port allows for simple configuration and diagnostics using Actisense software.

The configuration tool is accessible via any popular web browser (using the Ethernet port) so there are no PC operating system compatibility issues to contend with. Using the web based configuration tool will allow the user to finely tune the exact data available on each output. The default setup is for all data to go to all outputs.

2-part pluggable connectors on the PRO-NDC-1E means that new devices can be easily connected without the need to remove the unit from its mounted location.

The PRO-NDC-1E has the option to either mount directly to the bulkhead (with screws provided), or be DIN rail mountable with the addition of professional DIN rail brackets (sold seperately).

Helpful LEDs indicate power, status, data in & data out to aid diagnostics.



Features:

Type-approved (RINA).

5x Configurable Opto-isolated inputs.

2x Configurable ISO-Drive[™] isolated outputs.

1x Bi-directional, configurable, isolated serial port.

Automatic baud rate matching on inputs.

Advanced data filtering / routing.

Free firmware updates making the device future-proof.

Diagnostic LEDs on all inputs and outputs.

Alarm status LED / Mode LED / Bi-colour status LED.

Panel mountable.

Stainless Steel housing for added durability.

Features may change without notice.



PRO-NDC-1E Specifications



Power Supply	
Input supply voltage	9 to 35 V DC
Input supply current	150mA max @ 12V DC (all outputs @ full drive into 100 ohm loads)
Input protection	Continuous reverse polarity, transient overvoltage and ESD protection
Power indicator	LED, Blue - indicates unit is functioning correctly
Input Supply connector	Pluggable 2-way screw terminal, 5.08mm pitch (12 to 30 AWG)
NMEA 0183 Port - Listene	er & Talker
Number of Listener / Input Ports	5 isolated NMEA 0183 Listeners
Number of Talker / Output Ports	2 isolated NMEA 0183 Talkers
Compatibility	Fully NMEA 0183, RS422 & RS232 compatible. RS485 Listener compatible
Speed / baud rate	4800 to 38400 bps
Talker Output Voltage Drive	>= 2.2V (differential) into 100 ohm
Talker Output Current Drive	20 mA maximum per output
Talker Output Protection	Short circuit and ESD
Talker Data Indicator	LED, Orange (Flashes with data rate)
Listener Input Voltage Tolerance	-15 V to +15 V continuous, -35 V to +35 V short term (< 1 second)
Listener Input Protection	Current limited, overdrive protection to 40 VDC and ESD protection
Listener Data Indicator	LED, Green (Flashes with data rate)
Connectors	Pluggable 2/3 way screw terminals, 5.08mm pitch (12 to 30 AWG)
Serial Port	
Compatibility	RS422 & RS232 compatible. RS485 Listener compatible
Speed / baud rate	115200 bps
Output voltage drive	>= 2.1V (differential) into 100 ohm

20 mA max
Short circuit and ESD
-15 V to +15 V continuous, -35 V to +35 V short term (< 1 second)
Current limited, overdrive protection to 40 VDC and ESD protection
LED's: Green = Receive, Orange = Transmit
Pluggable 3-way screw terminals, 5.08mm pitch (12 to 30 AWG)
10/100BaseT, automatic polarity detection
TCP/IP for configuration and firmware updating
TCP/IP and UDP for NMEA 0183 comms
RJ45
Green - Link, Yellow - 100 Mbps
Uses IsoDriveTM, Hi-Pot tested to 1000V

Product Dimensions

PENDING REVIEW

