

MiniPlex-3PRO

The MiniPlex-3PRO is an advanced multiplexer which combines NMEA 0183 data from multiple sources into one stream. Its gateway function provides conversion between NMEA 0183 and NMEA 2000 in both directions.

It also has four NMEA 0183 outputs and an Ethernet port, and received NMEA 0183 sentences can be individually be routed to each of these outputs.

The Ethernet port is bi-directional, so it can transmit NMEA 0183 data onto an Ethernet network and at the same time, it can receive NMEA 0183 data to be routed to one or both NMEA 0183 outputs. Thus, NMEA 0183 data can be distributed to multiple devices connected to the network.

Communication speeds up to 115200 baud are supported.

SeaTalk

Input 1 can be set to SeaTalk mode, so it can transmit and receive SeaTalk data. Received SeaTalk data is converted to NMEA 0183 while NMEA 0183 data from any input or Ethernet port can be selectively routed and converted to the SeaTalk port.

All NMEA 0183 inputs, outputs and Ethernet port are galvanically isolated, thus preventing any chance of ground loops.

A comprehensive set of features include routing/filtering of NMEA 0183 sentences, numerous conversions, prioritisation of data etc. make the MiniPlex-3E the ultimate solution for any interfacing requirement.

NMEA 2000 Gateway

The MiniPlex-3PRO also serves as a multiple gateway between NMEA 0183 and NMEA 2000. Each NMEA 0183 input is visible on the NMEA 2000 network as an individual Data Source, one for each physical input, conversions and Ethernet port: 10 in total.

Using the Routing Table, data from every possible NMEA 2000 source can be routed to the Ethernet port and/or both NMEA 0183 outputs.



MiniPlex-3PRO Technical specifications

Supply voltage:	8-35 V _{DC} , protected against reversed polarity	Max output current:	20 mA @ > 2 V
Current consumption:	120 mA (200 mA max. with fully loaded talker ports)	Routing table size:	50 sentence types
Host interface:	10BASE-T/100BASE-TX Ethernet	Priority table size:	50 sentence types
Supported protocols:	TCP or UDP, port 10110 for NMEA communication TCP, port 10110 for firmware updates TCP and UDP, port 30718 for network configuration ARP, ICMP and DHCP for network management	Speed NMEA 0183 inputs:	4800 - 115200 baud
Inputs:	8 x NMEA 0183/RS422, galvanically isolated In 1 can be set to SeaTalk mode	Speed NMEA 0183 Outputs:	4800 - 115200 baud
Input resistance:	> 1.4 kOhm	Indicators:	Overflow and Data
Input current:	0.5 mA @ 2 V 3.0 mA @ 5 V 7.1 mA @ 10 V	Housing:	Flame retardant ABS
Outputs:	4 x NMEA 0183/RS422, galvanically isolated Out 4 can be switched to RS485/Modbus-RTU	Dimensions:	146 x 94 x 34 mm

NMEA 2000

Manufacturer Code:	595
Product Code:	22615
LEN:	1
Connector:	4-pole screw terminal