PRO

PRO Actisense PRO-MUX-1





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Feature		Advantage	В	enefit 🚟 📻	OUT 1 OUT 2 OUT 3 ABMABMABM COLORED TALKERS	
8 Opto-isolated inputs	d NMEA 0183	✓ 8 Listener inputs offer comprehensive autoswitching and combining outputs	✓	Flexible configurati autoswitch and con	•	ta
6 NMEA 0183 I outputs	SO-Drive™	 Distributes the individual data required by each Listener on-board a large vessel. Each ISO-Drive output protects against ground loops 	✓	ISO-Drive separates Talker to protect be each connected de and highest reliabil	th the PRO-MUX vices. Peace of	X and
 Bi-directional is port (optional N input/output) 		✓ High (115200) baud rate supported. Standard RS232 serial port compatible	✓	Fast bi-directional to a monitor and coapplication		1
Ethernet Port		✓ Ethernet data link for easy configuration of the PRO-MUX	✓	PRO-MUX can be c web browser on an		
Automatic baud on NMEA 0183		Changes a Listener input's baud rate to match a connected NMEA Talker's output	✓	Allows the PRO-MU out-of-the-box with configuration		
 Default operatir 	ng modes	 Default operation combines the data from all inputs and routes it to all Talker outputs 	✓	Allows the PRO-MU the-box	JX to work out-o	of-
 Filtering and Ro 	outing	Can apply basic input-based and advanced sentence-based routing rules to input data	✓	Allows each Talker only contain the rec nothing else that co the connected Liste	quired data and ould overwhelm	0
2 virtual Autos	witch modules	Any two Listener inputs can be chosen as the inputs to a virtual Autoswitch	✓	Allows automatic d selection between the same type of da	two devices of	
Alarm output o	ptions	Relay output and NMEA sentence output can be configured to trigger under various alarm conditions	✓	Relay output is con onboard alarm sys Alarm sentence ca actioned on an MF	tem and NMEA n be displayed a	and
 Advanced statis browser 	stics on web	✓ Web diagnostics show the current data statistics for each input and output	✓	Allows a user to qu an output is behavi		d if
 Input and outpu LEDs 	t diagnostic	✓ Quick indication of input / output data presence to help diagnose issues	✓	Individual diagnost confidence that eac passing data		t is
Alarm, Mode and	d Status LEDs	Highly visible Alarm, Mode and bi- colour Status indictors show current device state	✓	Three LEDs to help understand the cur operating state		
 Designed for 12 supply 	/ 24 Volt	 Can be powered from any standard DC power supply found on vessels 	✓	Allows use on large power supplies sys		
 Isolation from b 	attery ground	✓ Each output has 1500 volts of isolation from the DC power supply ground	✓	Critical to keeping protected from gro		
2-part pluggable system	e connector	✓ Quick installation of cables and reconnection between inputs / outputs		Fast installations ar screw and screwles Ideal for quick diagr	s terminal types	S.
DIN rail or Panel	mountable	DIN rail mountable and supplied with a small section of DIN rail for a quick installation		Fast installation / re arge and small vess		ooth





PRO-MUX-1

Professional NMEA 0183 Multiplexer



The professional NMEA 0183 Multiplexer is a highly flexible platform that cures many interconnectivity headaches.

Reliable and robust, it provides industry leading isolation on all inputs and outputs as standard, so that connected devices safely avoid hazardous ground loops, the primary cause of product failure in NMEA 0183 networks.

Mode Inputs					
Input voltage range	0 to 35V DC				
Protection	Transient overvoltage and ESD protection				
Alarm Output					
Contacts	Normally open and normally closed				
Electrical isolation	1000V between power supply and contacts				
Alarm indicator	LED, red indicates a valid alarm condition				
Mechanical					
Housing material	Polycarbonate / ABS blend				
Flame retardancy	UL94 - V0				
Dimensions (mm)	BAS-R: 165 x 33 x 123, BAS-S: 165 x 33 x 108				
Weight	270g including all screw plugs & shield screw				
Mounting	DIN rail mount (35mm top hat rail EN 50 022)				
Compass safe distance	250mm				
Wiring terminals	Pluggable 2/3 way screw or screwless connectors, 5mm pitch, 12 to 30 AWG				
Approvals and Certifications					
EMC	IEC 60945 (sections 9 , 10 & 11)				
CE	2014/30/EU				
Environmental protection	IP43				
Operating temperature	-15°C to +55°C				
Storage temperature	-40°C to +85°C				
Relative Humidity (RH)	0 - 80% RH				
Guarantee	3 years, extending to 5 years when product registere				

Part Numbers: PRO-MUX-1-BAS-R

PRO-MUX-1-BAS-S

Power Supply				
Input supply voltage	9 to 35 V DC			
Input supply current	250mA 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			
NMEA 0183 Port - Listene	r & Talker			
Number of Listener / input ports	8 isolated NMEA 0183 Listeners			
Number of Talker / output ports	6 isolated NMEA 0183 Talkers			
Compatibility	Fully NMEA 0183, RS422 & RS232 compatible. RS485 Listener compatible			
Electrical isolation	2500 V input to ground, 1000 V output to ground using ISO-Drive™			
Speed / baud rate	In1 to In4: up to 38400 bps In5 to In8: 4800 bps Out1: up to 115200 bps Out2 to Out6: up to 38400 bps			
Talker output voltage drive	>= 2.1V (differential) into 100 ohm			
Talker output current drive	20 mA maximum per output			
Talker output protection	Short circuit and ESD			
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 to indicate valid input)			
Talker data indicator	LED, Orange (Flashes at data rate)			
Status indicator	LED, Green / Yellow / Red to indicate status (see user manual)			
Serial Port				
Number of input ports	1 isolated input			
Number of output ports	1 isolated output			
Compatibility	RS422 & RS232 compatible. RS485 Listener compatible			
Electrical isolation	2500 V input to ground 1500 V output to ground using ISO-Drive™			
Speed / baud rate	115200 bps			
Output voltage drive	>= 2.1V (differential) into 100 ohm			
Output current drive	20 mA max.			
Output protection	Short circuit and ESD			
Input voltage tolerance	-15 V to +15 V continuous, -35 V to +35 V short term (< 1 second)			
Input protection	Current limited, overdrive protection to 40 VDC and ESD protection			
Ethernet Port				
Host interface	10/100BaseT, automatic polarity detection			
Supported protocols	TCP/IP for configuration and firmware updating TCP/IP and UDP for NMEA 0183 comms			
Connector				
	RJ45			
Electrical isolation	2kV			