

SeaHub

Surface Interface Unit

Compact design with configurable ports for ultimate interface flexibility

The SeaHub Surface Interface Unit is a highly versatile product, which allows any customer to interface Trittech or third party survey equipment via a USB1.1/USB2.0 connection on their own PC or laptop. The SeaHub also provides additional USB and serial ports to give instant access to storage devices, GPS or other ancillary sensors.



The SeaHub interfaces are software configurable to drive long lines with ARCNET or RS485 as required by the individual sensors and RS232, RS422 or TTL via multiplexer channels. The unit may be mains or DC powered; if mains powered then a DC output is available to power connected equipment. If DC powered the output DC is a fused extension of the input supply.

Front panel diagnostic LEDs show interface ports in use and their status. The SeaHub is fully compatible with Trittech Seanet Pro software suite and is automatically recognised in Windows if Seanet Pro is installed.

Additionally the unit may be extended using the same Remote Access Terminal (RAT) found on the Surface Control Unit (SCU) to provide an ergonomic set of hardware controls that can operate all of the functionality provided by the Seanet Pro software. Connection to the RAT is via the front mounted DE-9 port. Head connections can be made via an AIF compatible DA-15 connector, DE-9 serial, or DIN-6.

Benefits

- Compact rugged design
- Use with any PC
- Drive multiple sonars
- Configurable ports

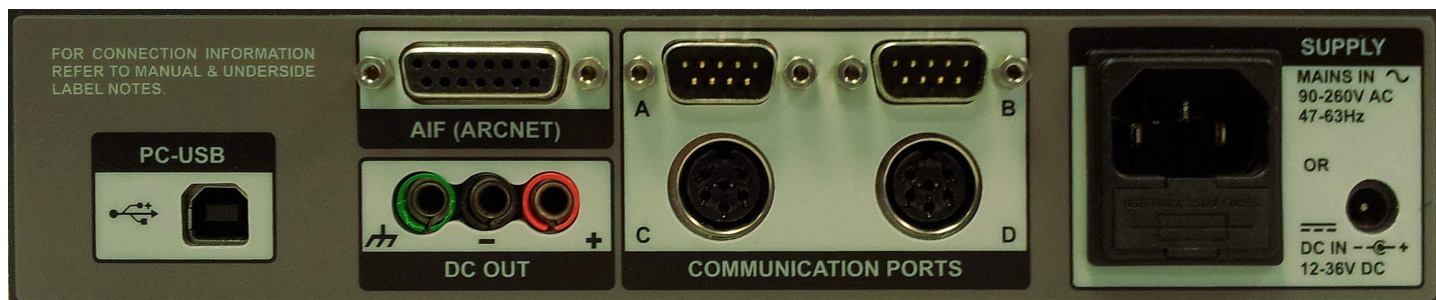
Features

- USB 2.0 interface
- DC and AC input
- ARCNET communication
- RS232, RS422 or RS485 communications
- LED status indicators

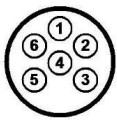
Applications

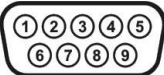
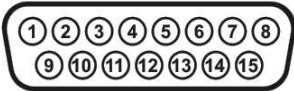
- Connecting a laptop to survey sonars
- Quick and versatile deployment

Specification



Electrical and Communication

Power requirement	90 - 260V AC 47-63 Hz 12 - 36V DC				
Power output with AC input	28V DC (50W, 1.25A)				
Power output with DC input	The same as input voltage (maximum 50W, 1.25A)				
Power output options	Jumper options for fixed 5V or 12V DC	Pin	RS232	RS485	ARCNET
Front ports	2x USB 2.0 (Type A) female 1x DE-9 Remote Access Terminal	1	RX	RX/RX-A	LAN A
Port A functionality	RS232 with handshaking or RS485	2	TX	TX/RX-B	LAN B
Port B functionality	RS232, RS422, RS485	3	+ DC (maximum 24V)		
Port C functionality	RS232, RS485 or ARCNET (with power output)	4	0V		
Port D functionality	RS232, RS485 or ARCNET (with power output)	5	Communications Ground		
		6	Screen		

	Pin	Port A and B		Port B	RAT					
		RS232	RS485	RS422	(front panel)					
	1	‡	‡	‡	0V		Pin	Function	Pin	Function
	2	RX	TX/RX.A	TX.A	+5V DC		1	not connected	9	+12V DC
	3	TX	TX/RX.B	TX.B	RAT RS485 B		2	COMMS GND	10	VCC
	4	‡	‡	‡	RAT RS485 A		3	0V	11	LAN EN
	5	Communications Ground			‡		4	LAN RX	12	RS232 RTS
	6	‡	‡	‡	‡		5	RS232 CTS	13	RS232 RX
	7	RTS	‡	RX.B	PS/2 SCLK		6	RS232 TX	14	LAN pulse 1
8	CTS	‡	RX.A	PS/2 SDATA	7	LAN pulse 2	15	LAN B		
9	‡	‡	‡	+12V DC	8	LAN A				

‡ = connected for handshaking only

Physical

Materials	Painted aluminium
Weight	1.3kg
Dimensions	231x182x52mm (width x depth x height)
IP Rating	IP21
Temperature range	5 to 35°C (-20 to 50°C in storage)

Specifications subject to change according to a policy of continual development.

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