SeaHub

Surface Interface Unit

The SeaHub Surface Interface Unit is a versatile control unit, permitting the user to interface Tritech or third party survey equipment via a USB connection on their own PC or laptop. The SeaHub also features additional USB and serial ports; giving 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 Tritech 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.

The SeaHub is available as either a 19” rack mount able unit, or as a portable desktop package.

Benefits

- Connecting a laptop to survey sonars
- Quick and versatile deployment
- Drive multiple sonars
- Low Power interface unit
- Configurable ports
- Drive multiple sonars
- Use with any PC
- Compact rugged design

Features

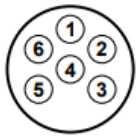
- USB 2.0 interface
- DC and AC input
- ARCNET communication
- RS232, RS422 or RS485 communications
- Compatible with Gemini software
- LED status indicators

Key Specification

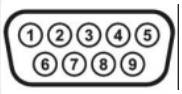
Materials	Stainless Steel housing with Anodised Aluminium front fascia
Power requirement	100 - 240 Vac 50-60 Hz (12 - 36 Vdc)
Weight	1.30 kg / 2.87 lbs or 3.40 kg / 7.50 lbs

Electrical and Communications

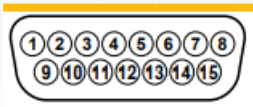
Power requirement	100 - 240 Vac 50-60 Hz (12 - 36 Vdc)
Power output with AC input	28 Vdc (35 W, 1.25 A)
Power output with DC input	The same as input voltage (maximum 1.25 A)
Power output options	Jumper options for fixed 5 V or 12 Vdc
Front ports	2x USB 2.0 (Type A) female 1x DE-9 Remote Access Terminal
Port A functionality	RS232 with handshaking or RS485
Port B functionality	RS232, RS422, RS485



Pin	RS232	RS485	ARCNET
1	RX	TX/RX - A	LAN A
2	TX	TX/RX - B	LAN B
3	+ Vdc (max. 24 V)		
4	0 V		
5	Communications Ground		
6	Screen		



	Port A and B		Port B	RAT (front panel)
Pin	RS232	RS485	RS422	
1	‡	‡	‡	0 V
2	RX	TX/RX.A	TX.A	+5 Vdc
3	TX	TX/RX.B	TX.B	RAT RS485 B
4	‡	‡	‡	RAT RS485 A
5	Communications Ground			‡
6	‡	‡	‡	‡
7	RTS	‡	RX.B	PS/2 SCLK
8	CTS	‡	RX.A	PS/2 SDATA
9	‡	‡	‡	+12 Vdc



Pin	Function	Pin	Function
1	n/c	9	+12 Vdc
2	Comms GND	10	Vcc
3	0 V	11	LAN EN
4	LAN RX	12	RS232 RTS
5	RS232 CTS	13	RS232 RX
6	RS232 TX	14	LAN pulse 1
7	LAN pulse 2	15	LAN B
8	LAN A		

Physical specification	Desktop version	Rack mount version
Materials	Stainless Steel housing with Anodised Aluminium front fascia	
Weight	1.30 kg / 2.87 lbs	3.40 kg / 7.50 lbs
Dimensions	242.5 x 191.66 x 53.81 mm / 9.55 x 7.55 x 2.12 in	482.6 x 219.3 x 43.7 mm / 19.01 x 8.64 x 1.73 in
Temperature (operating)	5 to 35 ˚C / 41 to 95 ˚F	
Temperature (storage)	-20 to +50 ˚C / -4 to +122 ˚F	

Specification subject to change in line with Tritech's policy of continual product development