Universal Subsea Display (USD)

The Universal Subsea Display (USD), displays information from a wide range of sensor types. It is viewed using ROV cameras or directly by divers. The USD is housed in a robust anodised aluminium alloy housing with an integrated compensator. The unit is available with a two line display (6 digits per row) or a single line (4 digits and a minus sign). The two line display can display information from two separate inputs.

The USD readily interfaces to equipment through two subsea connectors. The first connects to a battery pack or a vehicle/tooling package with both power and communication. The second connects to the equipment to be monitored providing the interfaces for sensing and the supplies for powering the equipment sensors.

The USD uses ultra-efficient LED types, a very low power processor and sophisticated power switching regulators which, together, mean it can operate from a wide DC voltage input range, requiring very low current and equally able to operate from ROV supply or from battery. In addition, it has a software configurable sleep mode with option to wake up on sensor activity or from the light sensor on the front face. The unit can be configured for a multitude of applications.

Specifications

Depth Rating:	3000m (10,000 feet)
Available Sensor Inputs:	Strain Gauge Bridge (full Wheatstone)
	0-5V & 0-10V Analogue Voltage
	4-20mA Analogue Current
	PNP or NPN Type contact/proximity
	Contact Closure – reed switch/ digital
Sensor Supplies:	1 off 5V to 250mA
	1 off 12V to 500mA
Sensor supply protection:	Current Limited & short circuit protected
Serial Out:	RS232 or RS485 (software selectable)
Serial Out:	(FET Proprietary format)
Input voltage:	3.5 – 35V DC (reverse polarity protected)

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Part Numbers

A019-904-400/01   Universal Subsea Display Kit

Features

- Used to display electrical signals subsea
- Power input range 3.5v-35v
- User-Friendly Configuration Software
- Rugged Construction
- Rated to 4,000m
- Supplied in offshore suitable transit case

What's in the box

- USD
- Battery Pack
- Battery Charger
- Programming Cable
- Programming Software
- Battery pack to USB Cable
- USD to FORUM Torque Tool Cable
- USD to ROV Flying lead (power)
- Operations & Maintenance Manual