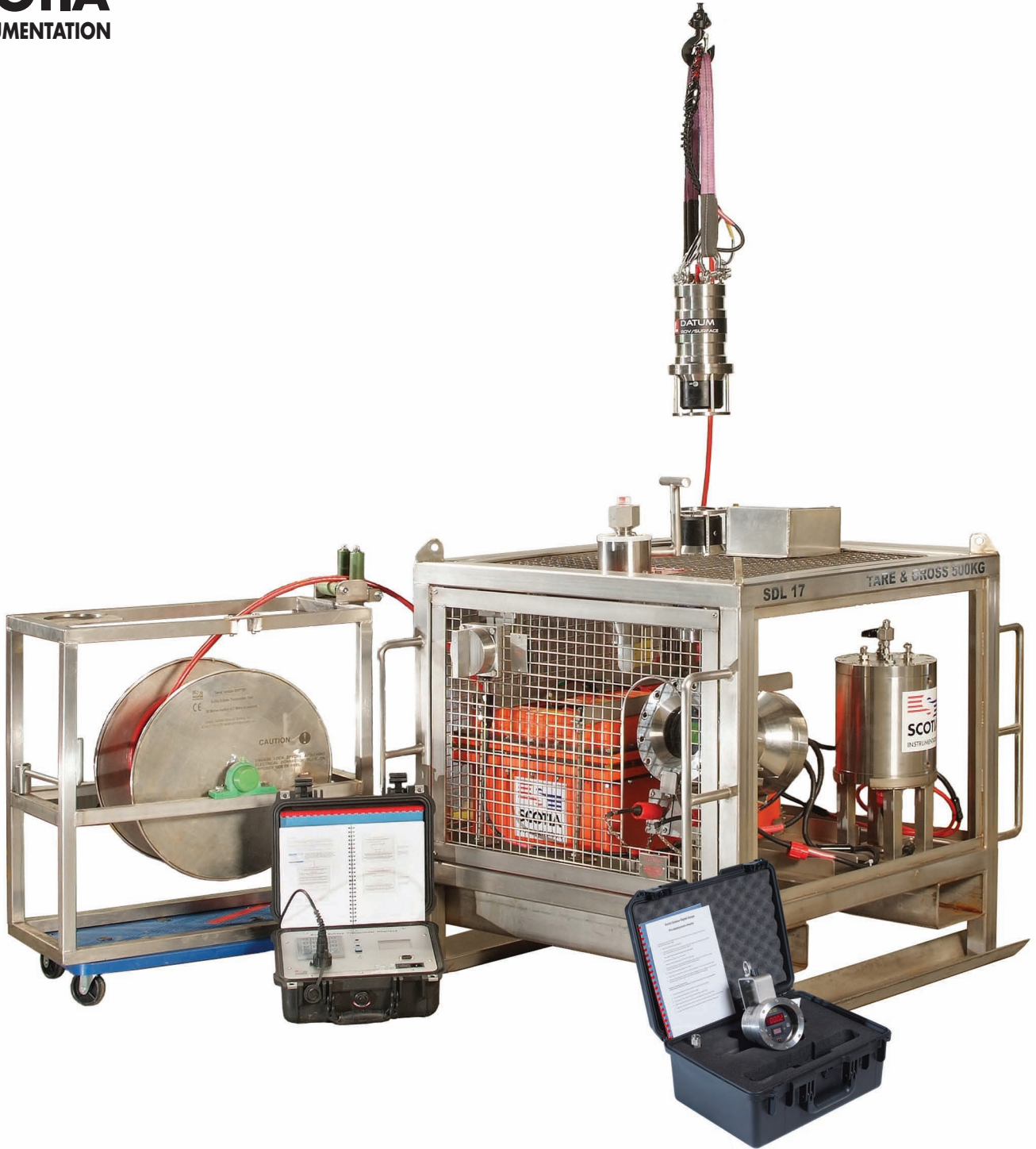




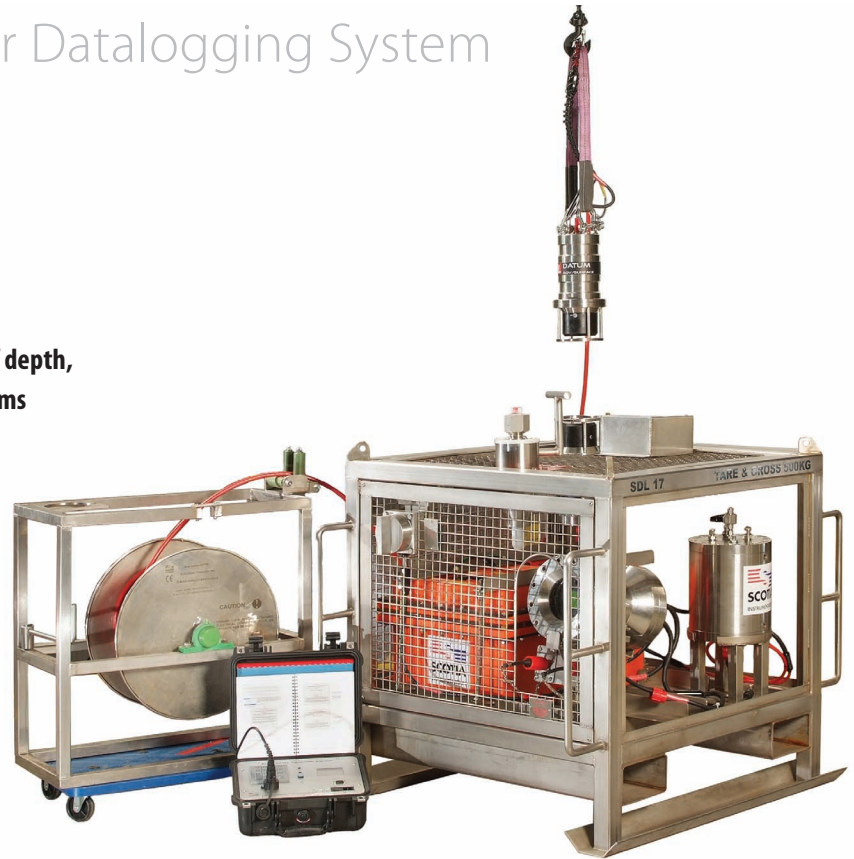
SUDS / SSDG

Scotia Subsea



# SUDS Scotia Underwater Datalogging System

The class leader in remote deepwater monitoring of depth, pressure, temperature and flow in hydrostatic systems



- Rated subsea depth of 3000m
- Measures and logs up to 5 transmitters
- Measures and logs water depth and temperature
- Measures and logs up to 3 flow rates or totals
- Alarm can be set for any channel
- Hand held terminal for easy set up of parameters in the field
- Logging intervals from 2 seconds to 10 hours with 32Mb non-volatile memory.
- Logging can be continuous for 10 days or up to a year at an interval of 15 minutes using sleep mode or delayed start to conserve battery life
- ROV friendly with light sensitive backlit display and easily operated On/off switch
- Rechargeable battery with onboard condition monitor
- Download automatically to SDAS software using USB memory stick attached to any PC or laptop
- Secure SDAS data files can be printed in graphical or tabular form or exported in ASCII text format for import into non-secure documents and spreadsheets

## OPTIONAL SPECIFICATIONS

- Surface Communications utilising "DATUM" Digital Acoustic Transponder & Underwater Modem
  - Subsea Omni-Directional transponder allowing the transmission of live data for shipboard retrieval via the Scotia Transponder
  - SUDS can reacquire transponder and download data whilst still logging allowing ship manoeuvring whilst testing
  - Fitted with two onboard batteries when configured with transponder
  - At 3000m depth, signal range 3-10km approx
- Modular Pannier panel with ROV-friendly double valve functionality and integrated pressure sensor
- Seatooth (WFS) technology for subsea wireless communication and data download
  - Logged data can be wirelessly retrieved by an ROV or AUV
  - Data can be viewed in real-time via ROV umbilical

## SPECIFICATIONS

Depth	The unit is rated for use up to 3000m	Flow	Pulse input (digital), any flow rate. Calculated flow displayed in litres, gallons or cubic meters. Flow rate in units/minute.
Weight	500kg approx (skid including all logging components)	Memory	32Mb – expandable by different cards to 1Gb
Skid	1m cubed approx St Steel	Battery	80Ah lead acid
Pressure	Up to 5 channels, maximum range 25,000psi	Download communications	9600 baud RS232
Temperature	Pt100 mounted in pressure pod, resolution = 0.1°C	Screen	Transflective LCD with backlight
		Log interval	2 seconds to 10 hours

# SSDG Scotia Subsea Digital Gauge



**Equipment supplied as standard:  
Scotia Subsea Digital Gauge, Battery  
charger, Subcon On/Off plug, all  
supplied in a protective carry case.**

- Max operating water depth of 1000m  
(Increased depths available – please contact Scotia Instrumentation Ltd)
- Current pressure ranges include 0-25bar, 100bar, 700bar and 1000bar, spec  $\pm 0.25\%$  of fs +1 lsd
- 0-100°C temperature range
- 4 digit pressure display with resolution to 0.1bar
- 3 digit temperature display with resolution to 0.1°C
- Light activated
- Illumination period, 1 minute default setting, after light source removed
- Rechargeable batteries with external charger, 2 hour charging time
- Maximum battery life is 16 days when switched on
- Provides 1400 activations from a full charge
- Connectivity for reel to surface readout (optional)
- Stainless steel housing
- Process connection supplied with sacrificial ½" nptm adapter
- 100mm diameter display
- Gauge dimensions: height 32cm, diameter 13.5cm
- Weight in air 5.75kg
- Supplied complete with 2 off M10 eyebolts
- Peli case dimensions: length 50cm, width 39cm, depth 24cm



Scotia Instrumentation also manufacture and supply,  
for sale or hire, surface test equipment  
for all types of testing of pipelines  
and process components

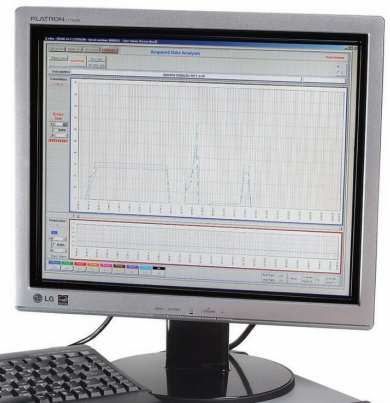


**SCOTIADATABOX**



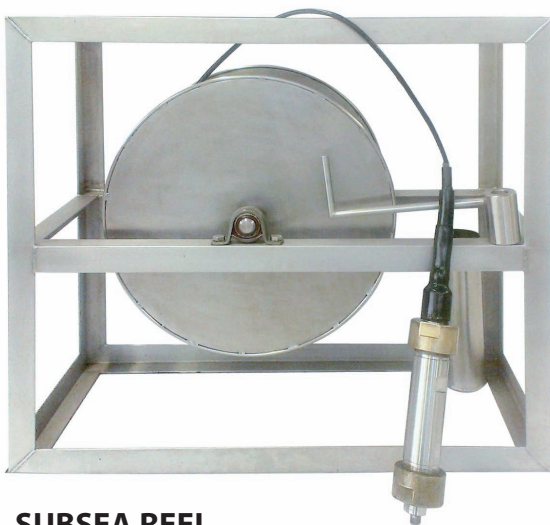
**SDAS 4**

The Scotia Data Acquisition System 4



**SDAS 5**

The Scotia Data Acquisition System 5



**SUBSEA REEL**

See our web site for full product details:  
[www.scotia-instrumentation.com](http://www.scotia-instrumentation.com)

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