

# Subsea Electrical Test System SETS<sup>™</sup>



#### **Measurement Capability**

- Live Test Data feed
- IR Insulation Resistance
- CR Continuity testing
- TDR testing
- OTDR Testing

#### **Electrical Integrity and Safety**

- Umbilical
- Jumpers and EFLs
- Part of a suite of subsea test tools

# Ex Ex Lloyd's Register

### **Typical Use**

- Fault finding on aging fields
- Gradual decay assessment
- Post lay testing
- Pre-commissioning test
- Field extension verification

#### Deployment

- Deployed in 3 small cases
- Minimal integration setup
- Simple and quick results



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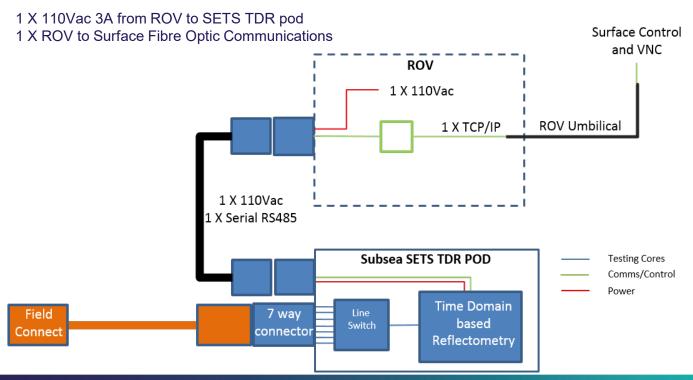
### **SETS TDR Datasheet**



### **Specification**

Specification	Rating	Notes
Depth (POD)	3000MSW	
Power (POD)	110VAC 3A	
Communications (POD)	TCP/IP 10/100 VNC	Requires 1 Rov to surface
	RS485/RS422 serial	communications mode
Power /Comms	25 Way Burton	POD to ROV
Connection		
Field Connect	To suite field – Tronic, ODI etc.	Test cable connects to Seacon on
		TDR Pod
TDR Test Distance	2m to 64kM (11 Discrete ranges)	Dependant on VOP
Number of lines	7 Copper	Option for 12 lines
Voltage	10V matched - 20V peak (Open Circuit)	
Pulse Width	Adjustable 10nS to 50uS	
Sample rate	Upto 800MHz	
Effective Dynamic Range	80dB	
Velocity of Propogation	33.33% to 99.99% VOP	
Resolution (distance)	0.01% to 0.02%	Distance Dependant
Scan time	Variable	Dependant on cable length and
		chosen resolution.
Uncertainty (Distance) m	Variable based on chosen range setting and	125mm to 8000mm dependant on
	pulse width	range and pulse width chosen
Data on	Open, Short, pinched and crushed, splices,	Visual line display and textual
	water ingress/damage	information
Criteria	Pass and Fail based on Attenuation	Visual Indication
Temp, Operating	-20° to 40°C	-20° to 55°C Storage

### **Connection Requirement**



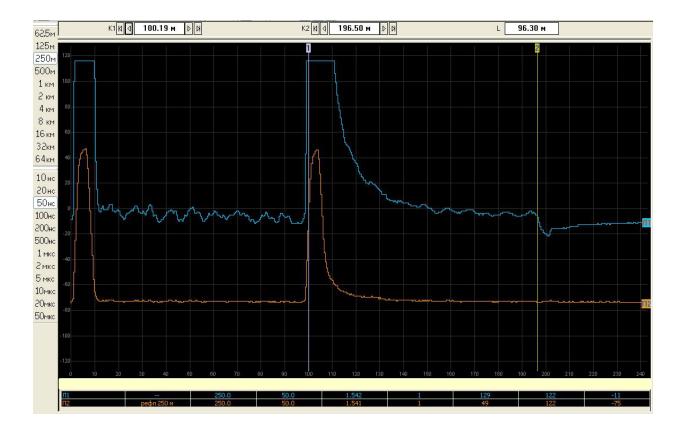
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### Software



- Ethernet TCP IP Communications
- Windows 7,8 10
- · Full remote test setup and start stop control
- Live (Near Real time) data trend
- IEC standard pass fail criteria (manual client criteria option)
- Data Export





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