TECHKNODYNE STPM200

4-CHANNEL TRANSPARENT SERIAL SUBSEA MULTIPLEXER SYSTEM

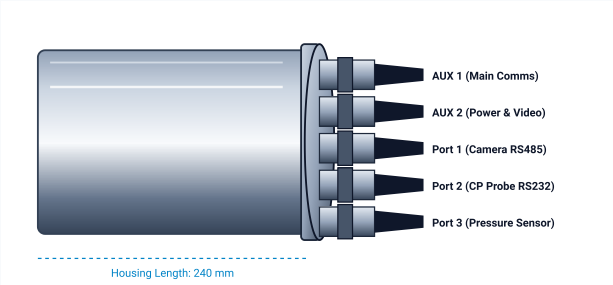
PRODUCT SPECIFICATION SHEET
Ref: TK-STPM200-DS

SYSTEM OVERVIEW

The **Techknodyne STPM200** is a compact 4-channel transparent serial multiplexer designed to transmit data reliably between subsea sensor pods and a topside rack unit over a single twisted pair cable. Supporting cable lengths up to 200 metres, the system delivers bi-directional RS232 and RS485 serial communication, enabling seamlessly integrated ROV and sensor monitoring operations.

> **Key Capability:** Integrated power delivery and bi-directional communications for subsea instrumentation, including CP Probes, Pressure Sensors, Bathymetric Units, and Pan-and-Tilt Cameras.

SYSTEM HARDWARE & TECHNICAL LAYOUT



Technical Diagram: Techknodyne STPM200 Subsea Pod Connector & Port Layout

TECHNICAL SPECIFICATIONS

Topside Unit (TSU)	
Dimensions	500 mm × 320 mm × 100 mm
Mounting	Standard 19-Inch Rack
Weight	5.0 kg
Input Voltage	110 to 240 VAC, 50–60 Hz
Serial Interfaces	4 × 9-way D-type (DB9)
Deck Cable Port	1 × 4-pin Amphenol socket
Power Port	1 × IEC Plug
Operating Temp	0°C to +40°C

Subsea Electronics Pod	
Dimensions	Ø 150 mm × 240 mm (L) (275 mm incl. connectors / 320 mm incl. plugs)
Weight	11.5 kg (in Air)
Input Power	5 VDC, 12 VDC, and 24 VDC
Output Power	12 VDC and 24 VDC
Interface Ports	5 × 5506-1508-0004 Burton Connectors
Blanking Plugs	5 × 5501-1508-0000 Plugs
Transmission	Single twisted pair up to 200 m
Operating Temp	0°C to +40°C

PORT CONFIGURATION & CHANNEL ASSIGNMENT

Channel	Topside Port (DB9)	Subsea Port (Burton)	Communication Standard	Default Application / Device
AUX 1 / COM 1	COM 1	AUX 1 (Main MUX)	RS485 (115,200 Baud)	Main Power & Comms / Imagenex Sonar
AUX 2 / COM 2	COM 2	AUX 2 / Port 1	RS485 (9,600 Baud)	Kongsberg Pan & Tilt Camera
Port 2 / COM 3	COM 3	Port 2 (CP Probe)	RS232 (9,600 Baud)	CP Probe System
Port 3 / COM 4	COM 4	Port 3 (Pressure)	RS232 (9,600 Baud)	Valeport IPS Pressure Sensor