SIDUS Solutions

SS109APT Acoustic Pan & Tilt

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Manufacturer / system supplier: SIDUS Solutions

Document type: manufacturer specification

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Applies to the named models and revision only. Housing, interface and performance differences must follow the individual model tables. Source discrepancies are recorded on the ROVITEC product pages; request the approved specification before integration.

Original manufacturer source

https://www.sidus-solutions.com/wp-content/uploads/2024/02/SS109APT_Pan__Tilt_Datasheet.pdf

Manufacturer pages follow unchanged. Local distribution copy.



Professional Solutions for Hazardous Areas & Subsea Systems

SS109APT
High Performance Acoustic Pan & Tilt Device for Imaging Sonars



SIDUS Solutions SS109APT underwater pan & tilt has been purposely designed and built to meet the demanding requirements for long range imaging sonar applications. As part of the design effort, we took careful consideration of the key features an advanced imaging sonar system would demand. The SS109APT includes user selectable, uniform, low & high speed rotation, near-zero backlash gearing and high accuracy optical feedback positioning for the accurate display of dynamic, static, or "send or go to" positions. Each pan & tilt is pre-programmed to your demanding requirements – including customization. Extreme slow and/or variable rotation speeds are easily managed via the provided graphical user defined digital control.

SIDUS Solutions has taken the proven field tested features of our high torque pan & tilts and added the features insisted by serious operators. At SIDUS Solutions, we are committed to provide you with a modular design to simplify field repair; requiring only small hand tools for complete break-down. We offer options for all your mounting needs and include software defined limit switches and/or hard stops to keep cable wrap under control. Positioning accuracy required by sonar operations necessitates we use optical encoders for low noise and high accuracy feedback.

SIDUS Solutions supplies partial or complete turnkey inspection system equipment and services. Ask you representative today about other SIDUS Solutions product offerings and services.

Specifications

Height	8.2 in. / 208 mm
Width	6.6 in. / 168 mm
Depth	3.3 in. / 81 mm
Weight	9.3 pounds / 4.2 kilograms (in air) 5.9 pounds / 2.7 kilograms (in water)
Housing	Hard anodized aluminium / stainless steel / titanium
Connector	Customer selectable
Operating depth	100 feet / 30.5 meters (air filled) 10,000 feet / 3,050 meters (oil filled) – full ocean depth compensated 19,685 feet / 6,000 meter option available
Operating power	24 VDC @ 1.2 A max (each axis)
Torque	up to 14 foot pounds / 19 Nm (each axis)
Rotation speed	Selectable down to ½ degree/second
Gear backlash	3 arc minutes
Scan range	360 degrees both axis 180 degrees tilt axis with yoke
Communication	RS232, RS422 or RS485
Feedback	Optical encoders 0.3° resolution

Design and Specifications are subject to change.

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