Teledyne Marine

ATM-900 Series

Acoustic Modems

Proven Acoustic Communications

The Teledyne Benthos **ATM-900 Series Acoustic Telemetry Modems** represent the next-generation in acoustic modem technology. The ATM-900 Series provides an extensive list of features and enhancements spanning well beyond basic underwater communication capabilities.

With over twenty five years of A-Comms experience, and thousands of acoustic modems delivered worldwide, Teledyne Benthos is your established, proven leader in acoustic communications technology.



PRODUCT FEATURES

- Reliable, robust, proven long distance communications
- Flexible housing designs to fit virtually any deployment configuration, including glass instrument housing
- Optional features such as high capacity data logging, in band acoustic recording, arbitrary waveform play, and dual serial port available
- Transducer options including omnidirectional and directional, both integral and remote versions
- Modems can be used in conjunction with the Benthos positioning product line
- All modems are compatible with the new JANUS interoperability standard

UTS-9400 Universal Top Side

- Splashproof, ruggedized and portable
- Internal batteries or AC/DC power
- · Color Display / Speakers
- Serial port
- Transducer and cable included
- Communicates with all Benthos acoustic modems and releases
- 25m to 200m cables available
- GNSS / Nav upgrade available



ATM-910 Series

- 500 meter depth rated
- Alkaline batteries, 378W-HR optional
- Remote head optional



ATM-920 Series

- 2000 meter depth rated
- Alkaline batteries,
 378W-HR optional
- Remote head optional



ATM-960 Series

- 6000 meter depth rated
- Alkaline batteries,
 588W-HR optional
- Remote head optional



ATM-903 Series

- Ideal for AUV applications or mounted in customer supplied housing
- Transducer, power cable and serial cable included



Compact Modem

- Highly compact; value priced option
- OEM or self-contained configurations







Acoustic Modems

TECHNICAL SPECIFICATIONS

ΔΤΙ			

Baud Rate 80 bits per second (bps) Frequency Hopped (FH)

140-2400 bits per second (bps) Multiple Frequency

Shift Keying (MFSK)

2560 -15,360 bits per second (bps) Phase Shift

Keying (PSK)

Frequency Band Customer Specified:

- 9 - 14 kHz (LF)

16 - 21 kHz (MF)22-27 kHz (Band C)

Distances-Range 2-6 km common, greater distances possible

Processing Features Data redundancy, 1/2 rate convolutional coding

Multipath guard period selection

FH, MFSK, and PSK modulation schemes

Deployment Length Up to 2 years

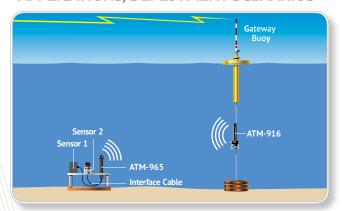
3-6 months typical with hourly transmissions

Unlimited with external power supplied

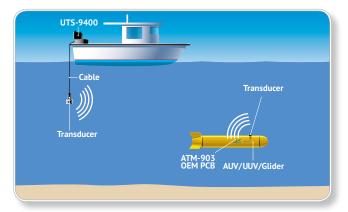
Data Storage 6144 KB datalogger standard

Expanded memory option available

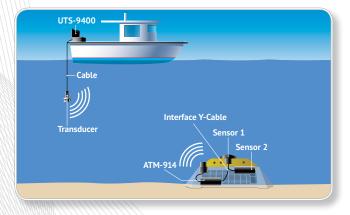
APPLICATIONS/DEPLOYMENT SCENARIOS



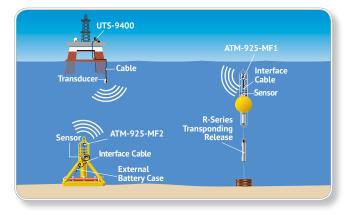
Real-time data capability from oceanographic moorings



Vehicle command and communications



Sensor command, communication and system vitals from a ship of opportunity



Oil and gas command and control



Teledyne Benthos

49 Edgerton Drive, North Falmouth, MA 02556 USA

Tel +1 508 563 1000 • Fax +1 508 563 6444 • E-mail Benthos@Teledyne.com

Specifications subject to change without notice. 11/2019. @2019 TELEDYNE BENTHOS, a business unit of Teledyne Instruments, Inc. Other products and company names mentioned herein may be trademarks and/or registered trademarks.