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

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**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
TECHNICAL SPECIFICATIONS

ATM-900 Series

**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

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