Teledyne Benthos

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

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

ATM-910 Series

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

ATM-920 Series

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

ATM-960 Series

- 6000 meter depth rated
- Alkaline batteries, 588 W-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
GENERAL 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

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

Vehicle command and communications

Oil and gas command and control

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