



RCOM 4987, 4988, 4989

are designed for communication with AADI real-time monitoring systems. Measured data are received, stored and forwarded into new or existing network. The units are developed for AADI by Develogic GmbH.

Communication Unit 4987 is designed for use in fixed installations.

Communication Unit 4988 is designed for AADI Data Buoy.

Communication Unit 4989 is designed for receiving stations.

Features of RCOM 4987, 4988, 4989

- Establish a two-way radio link between the measuring and the receiving station
- Multipoint to point connection for communication between several measuring and one receiver station
- Reliable communication due to data validation and retransmission.
- Data filtering and compression -only relevant data are transmitted
- RF modem, GPRS and satellite transponders available
- Status messages like e.g. GPS position, radio link quality and supply voltage
- Two way direct link between the TCM and SEAGUARD® for instrument configuration
- Data are converted into a format described by the customer
- Data from connected instruments are stored on an SD card.3 Measurement ranges:
0 - 300m, 0 - 2000m, 0 - 6000m

RCOM units 4987, 4988 and 4989 are designed for transfer of data between AADI real-time monitoring systems.

Unit 4987 and 4988 are equipment for the transceiver module, while unit 4989 is for the receiver module. The units are equipped with a TCM for e.g. data quality control and instrument configuration.

The communication units will establish a two-way radio link between measuring stations and the receiving station. Measured data are received, stored and forwarded into new or existing network by converting incoming data to format described by the customer.

Data from connected instruments are received on separate com ports. After checking for errors in the transmission from the instruments, data are stored in individual files on SD card. Data with errors will be re-transmitted from the instruments; if a message is

still not error-free, an error message are saved in a separate log file.

Data are transmitted on regular intervals and can be set to other interval than the instruments' logging interval.

Data are packetized and checksum is added for data quality control on the receiving end.

The TCM are able to synchronize the instruments' internal clock with the GPS time on regular intervals. Default synchronization interval is once per day.

The radio modem are powered from the TCM.

The RCOM units will interface AADI instruments and sensors to radio modems. On-board GPS receiver enables position reporting and time synchronizing for the instruments.

Specifications 4987, 4988, 4989

RCOM unit 4989 for installation on receiving stations:

- TCM module including:
- IP box, 3 serial port connectors, 1 antenna connector, 1 power connector, SD card, 3 configurable external serial ports
- Cables and antenna with EMP lightening protector for radio modem
- Sateline Radio Modem (VHF or UHF)
- Power cable, 3m. IP connector on one side free end (open) on other side
- Serial port cables, 3m. IP connector on one side 9-pin DB female on other side
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RCOM unit 4987 for installation on fixed installations:

- TCM module including:
- IP box, 3 serial port connectors, 1 antenna connector, 1 power connector, GPS, SD card, 3 configurable external serial ports
- Cables and antenna with EMP lightening protector for radio modem
- Cables and antenna for GPS
- Sateline Radio Modem (VHF or UHF)
- Power cable, 3m. IP connector on one side free end (open) on other side
- Serial port cables, 3m. IP connector on one side 9-pin DB female on other side
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RCOM unit 4988 for installation on AADI Data Buoy:

- TCM module including:
- Housing, GPS, SD card, 3 configurable external serial ports
- Cables and antenna with EMP lightening protector for radio modem
- Cables and antenna for GPS
- Sateline Radio Modem (VHF or UHF)

Supply voltage:	8 to 33V 12.5V with Satel RF modem
Current drain:	Sleep mode: <3mA@15V
IP box for 4989, 4987:	IP68 Weight: 2.65kg Dimensions: 240x120x100mm
Housing for 4988:	Dimensions: 235x85x35mm (ex radio modem) Weight: 0.3kg
Interface:	3 external interface ports (RS-232/RS-422 up to 15kbaud)
Connectors:	IP69K intrerface connectors
GPS antenna:	3.3V active GPS antenna
Logging capacity:	Up to 32GB



Illustration of RCOM 4987 for fixed installations. The TCM is mounted inside an IP box.



Illustration of RCOM 4988 for installation on AADI Data Buoy. The TCM and the radio modem are mounted inside the central buoy module.



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