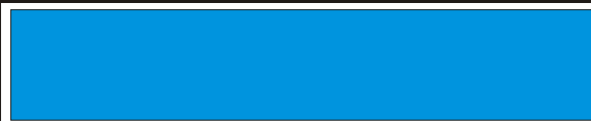




## Data Transmission with Iridium Satellite

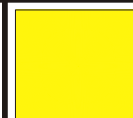
Typ

*IRIDIUM - Trans*



Iridium Sat-MODEM 9522

- worldwide transmission (66 satellites)
- low orbit satellite
  - ↕ low power consumption
  - ↕ small antenna
- full duplex transmission
  - ↕ free usable without time slot
  - ↕ real time alarm values
- transmission from portable IRIDIUM cellular phone possible
- SMS transmission
- low cost: hardware transmission
- for use with complete range of SEBA data loggers

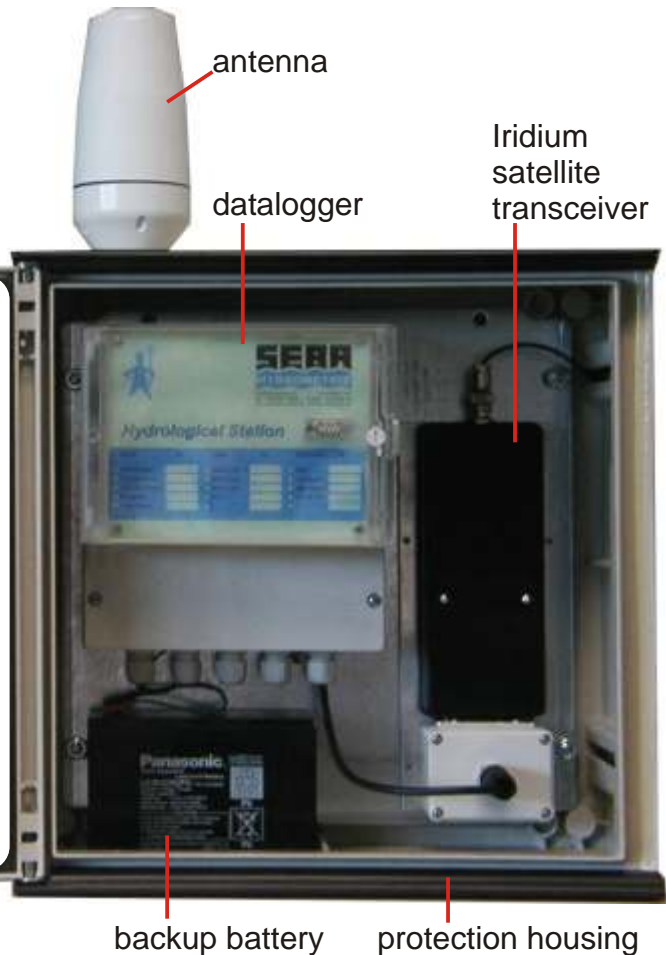


The SEBA Satellite Transmission System **IRIDIUM-Trans** is a modern, competitive remote data transmission system. Due to the multitude of IRIDIUM-satellites (66 pieces) a transmission to any point of the earth is possible at any time. The IRIDIUM-modem can be used similar to a telephone resp. GSM-modem. Either the field stations can be queried from a central standard PC with IRIDIUM-modem or from a normal IRIDIUM mobile phone. Moreover the field station transmits automatically the alarm values to the central or to the mobile phone. Besides this remote data transmission, the measuring data will be stored on a SEBA Datalogger (MDS-III, MDS-4, MDS-5 within preselected time intervals. This memory can be read out either via satellite or directly at site with a PDA or notebook.

## Technical Data: SEBA IRIDIUM-Trans

### Iridium satellite receiver

Frequency:	1616MHz to 1626,5MHz
Duplexing Method:	TDD (Time Domain Duplex)
Antenna impedance:	50 Ohm
Power supply:	12 to 24VDC
Peak Input Current max:	0,5A @ 12VDC
Power during a transmission slot:	7W (average max)
Power during a frame :	0.6W (average typical)
Connectors:	DC-Power, RS232
Antenna Connector:	single 50Ohm TNC connector for transmission and receipt
SIM Chip Connector:	An integrated SIM chip connector is provided. This connector allows installation of the chip form of the SIM beneath a cover plate
Operating temperature:	-20°C to +60°C
Operating humidity:	< 85% RH without protection housing 100% with protection housing
Storage temperature:	-40°C to +85°C
Protection Modem:	IP54



**Solarpanel:** 50W, backup battery 12V  
**Data Logger:** MDS-III, MDS-4, MDS-5 (see separate data sheets)

**Sensors:**

<b>water level</b>	<b>water quality</b>	<b>meteorological sensors</b>
	- temperature	- wind direction
	- conductivity, salinity	- wind velocity
	- pH	- precipitation
	- redox	- radiation
	- O <sub>2</sub>	- evaporation
	- turbidity	- atmospheric pressure
		- air temperature
		- air humidity
		- soil temperature

The right is reserved to changed or amend the foregoing technical specification without prior notice.



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