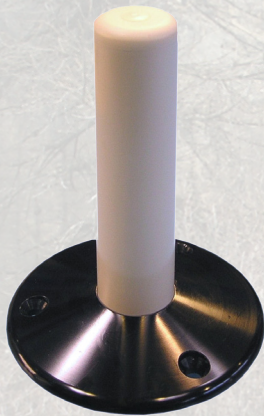




Iridium TRANS  
Modem



Iridium antenna

## Data Transmission via IRIDIUM Satellite

for surface water, groundwater and meteorological stations

- Robust satellite modem for global and nation-wide data transfer (incl. polar regions)
- Direct connection to SEBA measurement data collector Unilog

# Description

## 24 hour data availability:

The IRIDIUM satellite communication system currently consists of 66 active satellites enabling a world-wide data transmission by means of low earth orbits, LEO. The availability of data is thus ensured at any time and without time slot reservation.

## Reliable:

The data transmission at a rate of 2,400 baud is accelerated by the use of compression codec AMBE (Advanced Multiband Excitation). IRIDIUM-Trans uses this technique, thus turning itself into a modern, reliable and cost-effective data transmission system. To act completely independently of fixed and mobile networks, the use of an additional IRIDIUM modem is recommended for the central call-up system.

## Robust, adapted to field work and economical:

The modem is fully adapted to carrying out field work and distinguishes itself by its robust design and low power consumption. Even extreme temperature fluctuations do not pose a problem for the IRIDIUM modem.



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# Technical data

The main component is an optimized transceiver which operates like a standard modem. Almost every data logger and sensor is suitable for the connection via the RS 232 port and therefore integrable with all SEBA measuring systems. The transceiver with the intelligent technique of SEBA Iridium

controller is specially produced for the requirements of hydrometeorological stations which makes it a unique solution for the transmission of monitoring data from (remote) field stations.

<b>Modem:</b>	Satellite Modem (Iridium) Frequency: 1616 to 1625.5 MHz	
<b>Duplex Method:</b>	TDD (Time Domain Duplex)	
<b>SIM card type:</b>	SimChip	
<b>Antenna impedance:</b>	50 Ohm	
<b>Antenna connection:</b>	TNC	
<b>Antenna:</b>	iridium antenna	
<b>Interfaces:</b>	RS 232	
<b>Housing:</b>	<b>Material:</b>	ABS
	<b>Dimensions:</b>	125 x 100 x 80 mm (L x W x H)
	<b>Protection class:</b>	IP 54
	<b>Fastening:</b>	Mounting plate, top-hat rail
<b>Power supply:</b>	10-18 VDC	
<b>Power consumption:</b>	0.6 W (reception), 7 W (sending)	
<b>Operating temperature:</b>	-30 °C ... +70 °C	

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

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