



## ecoTech Precision-thermistor-string

Up to 48 temperature sensors and more (depending on application) at one measuring cable, vertical and horizontal measurements

The precision-thermistor string is a highly versatile device to monitor waters, fountain levels, soil profiles, bulk goods etc. By default, the measurement chain is connected to an ecoTech enviLog data logger via the SDI-12 bus. With optional RS485 Modbus RTU interface the measuring string can be used to create temperature profiles in geothermal applications, bulk goods etc.

Up to 48 high-precision temperature sensors, can be connected to an enviLog-Datalogger, with other data recording devices as well more.

In addition to a linear array at customized distances, a star-shaped arrangement of the sensors is also possible.



Up to 48 temperature sensors



Flying leads to connect different data logger (we recommend enviLog Mobil)



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## Properties

Measuring range:	°C	-20 ... +80
Resolution:	°C	0,001
Accuracy (ex works) in the range -20 °C to +80 °C	°C	+/- 0,1
Number of sensors:	pc.	1...48 and more
Output:	-	SDI-12, RS 485 Modbus
Voltage supply:	V/DC	6-16 V (SDI12) 4-16 V (RS485)
Current consumption:	mA/µA	10/0,8 (SDI12) 5 mA constant (RS485)
Maximum water depth:	M	100
Diameter:	mm	14
Diameter cable:	mm	6
Tensile strength:	N/cm <sup>2</sup>	500

- Individual string length and sensor positions according to customer requirements, minimum distance of the sensors approx. 20 cm
- String or star-shaped arrangement of the sensors
- Accuracy adjustment ex works
- Option: each temperature sensor can be synchronized individually
- Connection to ecoTech enviLog-Datalogger via SDI12
- Cable length up to 500 m; max. water depth 100 m (10 bar)
- PUR cable, low-adhesion, halogen-free, good hydrolysis and microbial resistance
- Extreme tensile strength of the cable due Kevlar yarn
- Low power consumption



Temperature sensos

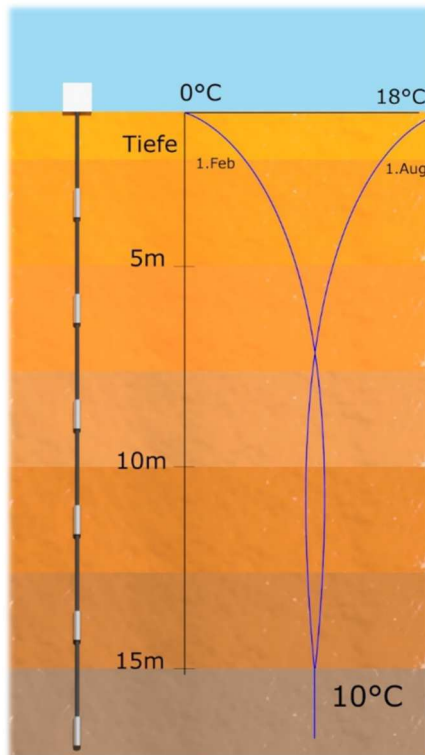


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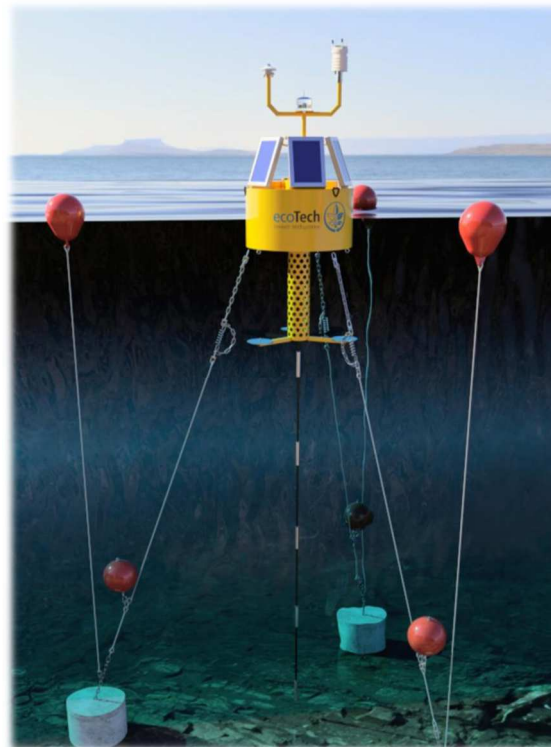
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## Fields of application (examples)

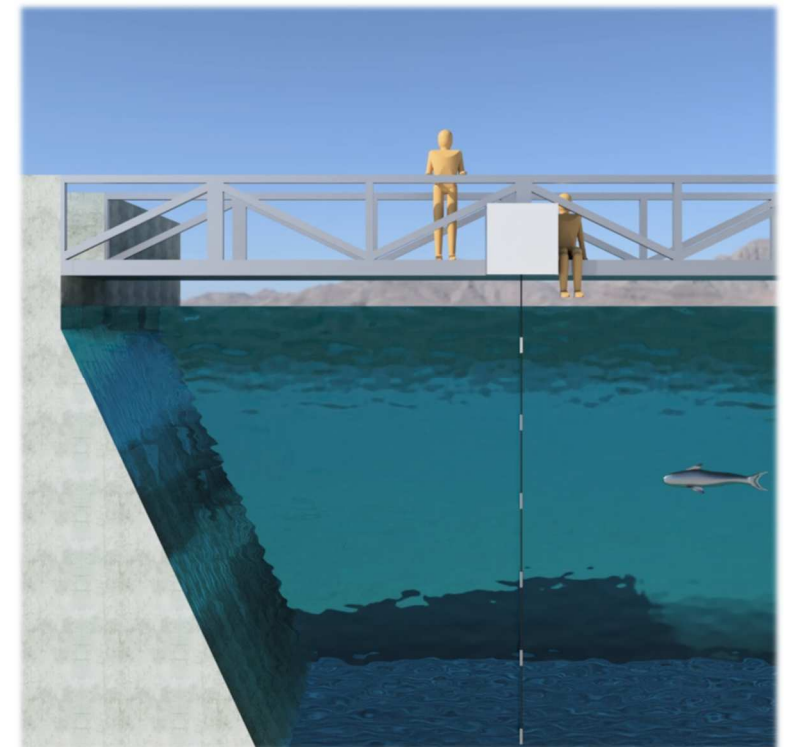
Geothermal



Buoys



Reservoirs



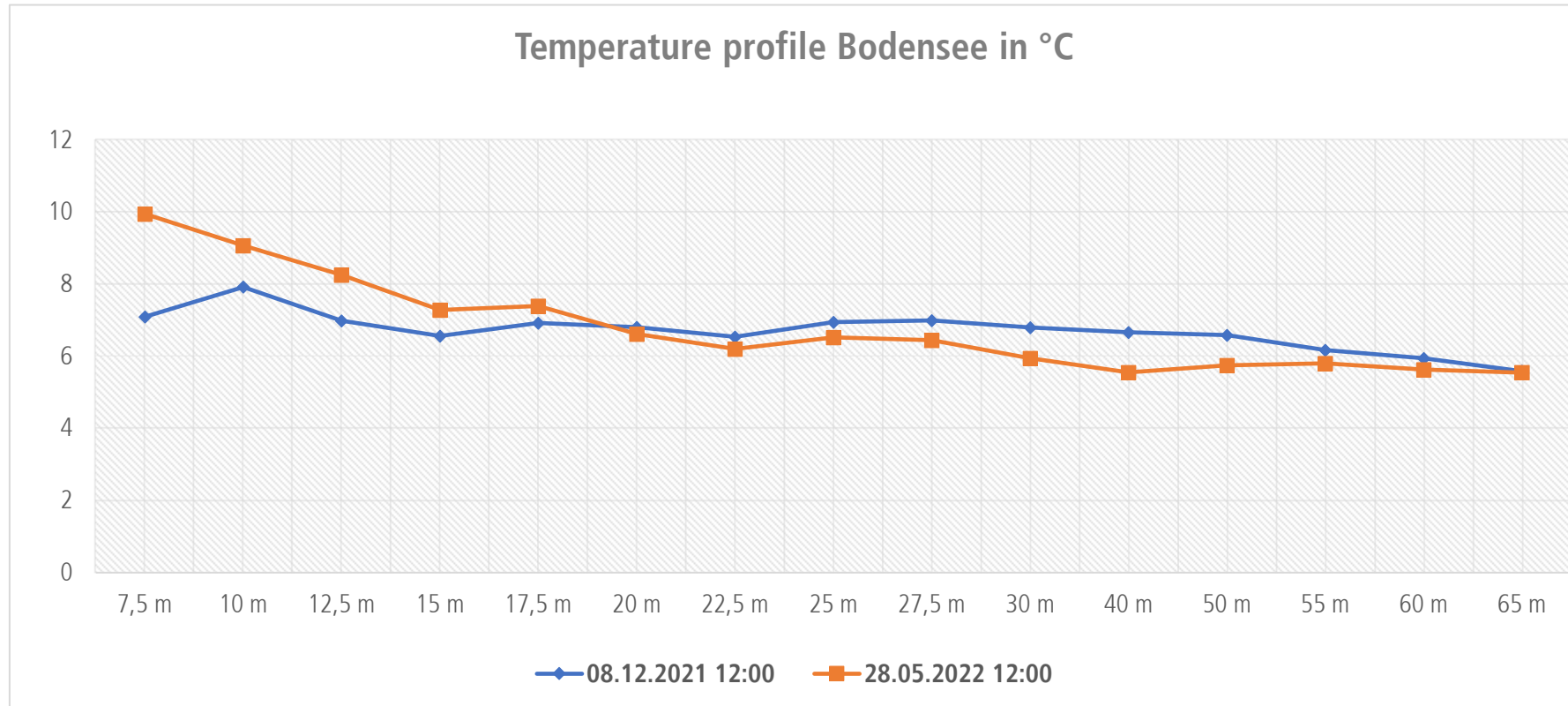


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## Example Temperature profile

Further information can be found at: [https://www.ecotech.de/en/product/ecotech\\_boje\\_typ\\_bodensee](https://www.ecotech.de/en/product/ecotech_boje_typ_bodensee)



For any project request and technical consultation do not hesitate to get in contact with us:

<https://www.ecotech.de/en/contact>