



Temperature sensor.


Get 24/7 temperature data, no matter how remote your well or pipeline.



Monitoring wells or pipelines? Then you know that temperature data is one of the key pieces of information you need. The HiberHilo Temperature sensor-1 makes it easy to get temperature data from your remote wells thanks to a world-class satellite connection. ATEX certified and easy to install, this sensor makes getting temperature data as simple as screwing the device output. All so you can know the status of your wells, improve your decision making, and optimise your resources with regular, reliable data.

There's a lot to say about the HiberHilo Pressure sensor-1, have a look at the next page for all the details."

Certifications

CE 0081:  II 1/2 G Ex ia IIC T4 Ga/Gb.

Get all the details on temperature sensors.

If you want to know more about the HiberHilo Temperature sensor-1, we're here to help. Get in touch today, and we'll be happy to answer any questions. E: sales@hiberhilo.com

About HiberHilo

HiberHilo is an easy-to-install end-to-end IoT solution for monitoring remote wells anywhere on earth using reliable and affordable satellite connectivity. Hiber partners with WTS Energy on the installation, service, and maintenance of HiberHilo to help the oil and gas industry increase safety and operational efficiency during the energy transition. The company was founded in 2016 and has its headquarters in Amsterdam in the Netherlands. WTS Energy is a leading solution supplier in the oil, gas and renewable energy industries and has 21 offices around the globe.



GENERAL

Weight (including battery)	1.3 kg
Dimensions	110x110x80 mm
Thermowell length availability	380 / 450 / 500 / 550 / 600 / 650 mm
Protection class	IP66
Internal memory for measurement records	10 years, FIFO
Material in contact with process effluents	Inconel
Minimum acquisition period	2 min
Acquisition period by default	1h
ATEX Certification	CE 0081 Ex II 1/2 G Ex ia IIC T4 Ga/Gb.

AUTONOMY

30 minutes acquisition period	5,0 years
15 minutes acquisition period	3,5 years
10 minutes acquisition period	2,5 years
05 minutes acquisition period	1,5 years

TEMPERATURE

Process Temp range Calibrated	-20 ° C to 180 ° C
Process Temp max range for safe operations	-60°C to 200 ° C
Storage Temp	-40°C to 60°C
Operating Temp in explosive atmospheres	-20°C to 55 ° C
Safe Operating Temp in explosive atmospheres	-20°C to 70 ° C
Accuracy	±0.5°C
Resolution	0,1°C

COMMUNICATION: LONG RANGE WIRELESS

LoRa protocol	LoRaWan 1.0.2
Frequency band (MHz)	EU 863-870; US 902-928 ; AS 919-923
Encryption	Provided by LoRaWan protocol
Transmission range (Typical)	2-3 km Urban Area
	5-7 km Rural area
	12 km Direct line of sight
	25 km with 50 m mast Antenna

COMMUNICATION: SHORT RANGE WIRELESS

Short Range Wireless	
BLE protocol	Version 4.1, low energy consumption
Frequency bandwidth	2.400-2.4835 GHz
Encryption	Provided by BLE protocol
Operating range	2 meters