



# Pressure sensor.

*Gather pressure data from explosive environments safely.*



Keep your worksite safe and get 24/7 pressure data with the HiberHilo Pressure sensor-1. This 1.3-kilogram sensor plugs directly into the Christmas tree on your well through a standard connections (e.g. 1/2" NPT), and you're done. Two minutes later you'll have data flowing from your well to a gateway, which will beam that information to the satellite network.

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

## Certifications



0081:



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

## Get all the details

"If you want to know more about the HiberHilo Pressure sensor-1, we're here to help. Get in touch today, and we'll be happy to answer any questions. E: [sales@hiberhilo.com](mailto: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 without Antenna (H / I / L)	217 / 140 / 90 mm
Protection class	IP66
Storage temperature	-40°C to 60°C
Internal memory for measurement records	10 years, FIFO
Material in contact with process effluents (Wetted Parts)	316 L (no elastomer)
	Inc 718 (no elastomer)
Housing Material	Aluminium / Stainless Steel (optional)
Minimum acquisition period	2 min
Acquisition period by default	5 min
ATEX Certification	CE 0081 Ex II 1/2 G Ex ia IIC T4 Ga/Gb
PED Certification	PED 2014/68/EU
Operating Temp in explosive atmospheres (T4 environment)	-20°C to 55°C
Max Fluid Temp	up to 125 °C
AUTONOMY	
30 minutes acquisition period	5,0 years
15 minutes acquisition period	3,5 years
10 minutes acquisition period	2,5 years
5 minutes acquisition period	1,5 years
TEMPERATURE	
Measurement range*	-20°C to 80°C (+/- 2deg C)
PRESSURE RANGE	
Measurement range	[0- FS] bar pseudo relative
Available range full scale (FS)	10 bar / 145 Psi
	100 bar / 1,450 Psi
	400 bar / 5,800 Psi
	1,000 bar / 15,000 Psi
Measurement accuracy**	Up to 0.1 % FS
Drift	0.1 % / Y
COMMUNICATION: LONG RANGE WIRELESS	
LoRa protocol	LoRaWan 1.0.2
Frequency band (MHz)	EU; US; AS
Encryption	Provided by LoRaWan protocol
Transmission range (Typical)	2-3 km Urban Area
	5-7 km Rural area
	12 km Direct line of sight
COMMUNICATION: 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	Up to 5 meters

\* Temperature measured at sensor point (outside process fluid temp)

\*\* Temperature is measured at sensor location and does not provide process fluid temperature