

PRESSURE SENSOR

Battery Powered · Impact-Resistant · 10-Year Design



KEY INDICATORS



Range

0–100 MPa
(multiple options)



Accuracy

$\pm 0.5\%$ FS
(high-precision option)



Stability

$\pm 0.2\%$ FS / year



Overload

$\leq 2 \times$ full-scale



Battery Life

>10 years
(hourly reporting)



Protection

IP68

OVERVIEW

The H Series pressure sensor delivers continuous, high-stability pressure monitoring for complex industrial applications. Measuring ranges from 0–1 MPa up to 0–100 MPa with $\pm 0.5\%$ FS accuracy and $\pm 0.2\%$ FS/year stability are combined with 4G / NB-IoT / LoRa wireless reporting. The impact-resistant, IP68-rated enclosure and 10-year battery life make it ideal for unattended pressure monitoring in chemical, semiconductor, building services and research installations.

FEATURES

Cloud

Supports Hitelecom public cloud and custom private cloud services.

Green

Ultra-low power consumption — battery life over 10 years under standard hourly reporting.

IP68

Impact-resistant, fully sealed enclosure for harsh industrial and outdoor environments.

NFC

Innovative NFC technology for power on/off, device onboarding and on-site maintenance configuration.

OTA

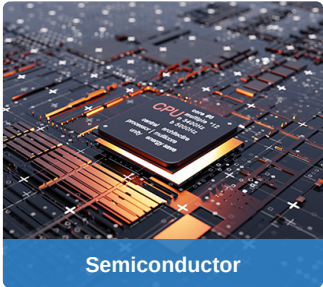
The cloud platform enables one-click remote firmware updates, keeping every device on the latest version.

Innovation

Ultra-low-power design and consistent long-term operation make it an ideal component in IoT solutions.



Chemical Industry



Semiconductor



Smart Building



Smart Industry



Scientific Experiment



Smart Agriculture



Tower Monitoring



Geological Exploration

	Item Numbers		Description
	Product Models		H200 / H300 / H500
Physical Characteristic	Power Supply		Battery-powered, ultra-low-power design
	Battery Life		>10 years (1-hour reporting interval)
	Installation		Flexible installation options: ear mount, pole clamp, slot
	LTE-FDD		B1 / B3 / B5 / B8
Frequency Band	LTE-TDD		B34 / B38 / B39 / B40 / B41
	Measuring Range		0–1 / 1.6 / 3.5 / 7 / 10 / 20 / 35 / 100 MPa
Pressure Sensor	Accuracy		±0.5% FS (high-precision customization available)
	Overload		≤ 2 × full-scale pressure
	Stability		±0.2% FS / year

	Item Numbers	Description
	Protocol	MQTT
Communication	Wireless Options	4G Cat.1 / NB-IoT / LoRa (by model)
	Cloud Access	Hitelecom Cloud Platform, remote data access anywhere
	Operating Temperature	-20°C ~ +80°C
Environmental Range	Storage Temperature	-20°C ~ +85°C
	Protection Rating	IP68
	Alerts	Automatic user notification when thresholds are exceeded
Smart Functions	Configuration	NFC activation, device onboarding and maintenance
	Firmware	OTA remote upgrades
	Product Models	H200 / H300 / H500
Ordering	Customization	Range, thread and cable options on request

CUSTOMIZATION & SUPPORT

Hitelecom provides OEM/ODM customization for the H Series, including measurement range, probe and cable options, communication variant (4G Cat.1 / NB-IoT / LoRa), reporting interval, and private-platform integration. For model selection, project pricing, or integration support, contact the Hitelecom sales team at sales@hitelecom.cn or call +86 18616602589.



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