TEMPERATURE & PRESSURE

H Series | Configured Field Instrument

Process conditions | Sensing | Data path | Installation



Product image for reference; supplied configuration governs.

KEY INDICATORS

Pressure Accuracy	Temperature Options	Accuracy Options	Wireless Versions	Online Monitoring
±0.5% FS Reference conditions*	-200 to +800°C Across probe options*	±0.5°C listed ±0.1°C custom*	4G / NB-IoT / LoRa Select configuration	Data & alerts Agreed platform path

OVERVIEW

Bring temperature and pressure readings from process equipment into one monitoring workflow. Configure the H Series around the medium, working ranges, sensing points, process interfaces and selected data path. View uploaded readings online in Hitelecom Cloud and receive notifications when measurements exceed configured thresholds, or integrate the agreed records with a compatible customer platform. Select pressure span and probe independently; hazardous-area documentation must cover the exact supplied assembly.

FEATURES

DEFINED SENSING POINTS

Specify where pressure and temperature are measured, with working ranges, response needs and units.

PRESSURE SELECTION

Select a listed full-scale span from 1 to 20 MPa. Define pressure reference, accuracy conditions and process duty.

PROBE-SPECIFIC THERMAL

Select the probe and applicable accuracy for the working range; family envelope is not a single-probe rating.

PROCESS INTERFACES

Review wetted materials, connection, insertion and thermal separation for the actual medium and installation.

ONLINE DATA & ALERTS

View uploaded readings in Hitelecom Cloud and test notifications above configured thresholds.

VERIFIED DATA PATH

Select wireless version, receiving path, sampling and reporting; retain configuration and acceptance records.

* Accuracy, applicable range, test conditions and complete assembly limits require configuration confirmation.

APPLICATIONS


Chemical-process support

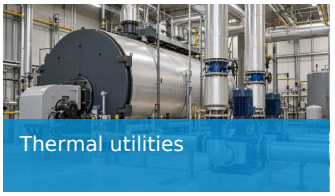

Pharma process support


Food & beverage support


Oil & gas equipment


Fuel & gas utilities


Compressed-air systems


Thermal utilities


Water-treatment processes

Eight representative environments. Website: 12 categories / 36 duties, including batch chemicals, mining, manufacturing and OEM projects.

Item		Description
Product	Published family	H200 / H300 / H500; exact model and communication version confirmed with the order
	Measurements	Temperature and pressure
Pressure	Full-scale options	1 / 1.6 / 3.5 / 7 / 10 / 20 MPa; pressure reference and usable span to be confirmed
	Accuracy reference	±0.5% FS; confirm reference conditions and total error for the selected span
Thermal	Selection envelope	-200°C to +800°C across probe configurations; not a universal single-probe range
	Accuracy reference	Published ±0.5°C, with ±0.1°C customization listed; confirm probe, applicable range and test conditions
Data Link	Wireless versions	Selected 4G LTE / NB-IoT / LoRa hardware and firmware; receiving path agreed
	Platform integration	MQTT on supported configurations and agreed receiving path; Hitelecom Cloud or compatible customer platform
	LTE band reference	TDD B34/B38/B39/B40/B41; FDD B1/B3/B5/B8, only as supported by the selected cellular hardware and local operator

The measured-medium temperature is separate from the permitted electronics, battery, seal and enclosure conditions.

SPECIFICATIONS

Item		Description
Assembly	Protection reference	Published IP68; immersion conditions, probe connections and assembled sealing to be confirmed
	Operating / storage	Published -40°C to +125°C reference; confirm electronics, probe, seals and complete assembly limits independently of process temperature
	Process interfaces	Threads, wetted materials, probe construction and mounting agreed for the project
Area Review	Hazardous-area use	Exact certificate, marking, market coverage and installation conditions confirmed before selection
Setup	NFC / OTA	Supported configurations only; commissioning and update path agreed
	Timing and power	Sampling, reporting, alert workflow and power plan specified for the supplied assembly
Platform	Online view and alerts	View uploaded monitoring data online. Receive alerts when readings exceed configured thresholds
Acceptance	Measurement records	Check known inputs or reference readings, units, point identity, probe range and order-specific accuracy conditions
	Data and thresholds	Verify reporting behavior, missing-data handling and configured notifications through the agreed platform path

The -200°C to +800°C family envelope and listed ±0.5°C / customized ±0.1°C options do not promise the same accuracy across every probe or the complete range. Establish the selected probe, working interval and calibration conditions.

Select connections and wetted materials for the actual medium, temperature and pressure. Hazardous-area documentation must cover the supplied assembly. Hygienic, sanitary or sector-specific approvals are not implied by the application photographs.

Separate process measurement limits from electronics and enclosure ambient limits. Monitoring notifications support operations; no safety-interlock, shutdown or regulatory-reporting function is asserted.

MEASUREMENT & PLATFORM HANDOVER

Selected sensing
Temperature and pressure

→

Configured terminal
Agreed communication

→

Monitoring platform
Online data and alerts

Check representative pressure and temperature values through the selected data path, including the compatible receiver for LoRa. Record units and point identity; test configured thresholds, recipients and the agreed reporting behavior.

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