Hitelecom®

HYDROLOGY STATION

H700 | Configurable Monitoring

Selected sensors | Power | Communication | Platform



Product image for reference; supplied configuration governs.

KEY INDICATORS

Sensor Channels	Communication	Power Options	Protection	Data Integration
2-12 By configuration	4G LTE / NB-IoT / LoRa - select version	Solar / Mains Project configuration	IP65 Station reference*	MQTT Agreed platform path

OVERVIEW

The Hitelecom H700 brings selected water and environmental measurements into a connected monitoring system. Configure 2-12 sensor channels around water level, flow-related observations, water-quality measurements and relevant weather conditions. Select the sensing assemblies, solar or mains power, communication version and reporting profile for the site. View uploaded data online in Hitelecom Cloud, receive alerts when readings exceed configured thresholds, or agree MQTT integration with a compatible customer platform.

FEATURES

MEASUREMENT CHANNELS

Configure 2-12 selected sensor channels. Define each sensor, range, accuracy and installation conditions.

POWER OPTIONS

Select solar or mains power. Size the supplied assembly for sensor load, the operating profile and site conditions.

WIRELESS VERSIONS

Select the 4G LTE, NB-IoT or LoRa version. Match the modem or compatible receiving path to the site.

CLOUD MONITORING

View uploaded monitoring data online in Hitelecom Cloud. Receive alerts when readings exceed configured thresholds.

NFC & OTA OPTIONS

Use NFC setup and OTA updates on supported configurations. Agree the supplied hardware, firmware and management path.

PROJECT CONFIGURATION

Specify sensors, measurement conditions, power, communication, mounting and platform integration for the project.

* Channel sets, sensor performance, power and installation ratings follow the supplied project configuration.

APPLICATIONS


Rivers & catchments


Reservoirs & lakes


Urban drainage


Water & pump facilities


Irrigation channels


Industrial water


Wastewater facilities


Aquaculture sites

Illustrative environments. Additional settings include wetlands, estuaries, construction dewatering and mountain catchments; sensing assemblies and siting are project-specific.

Item		Description
Product	Model	H700
	Sensor channels	2-12 channels, selected for the project
	Protection reference	IP65 station reference; confirm component ratings and installation conditions
Sensing	Channel options	Water level, flow-related, water-quality and selected meteorological channels; by configuration
	Measurement range	Specified for each selected sensor and application
	Accuracy and resolution	Defined for the selected sensor, working range, exposure and operating conditions
Data Link	Wireless versions	4G LTE / NB-IoT / LoRa; selected hardware and firmware configuration
	Data protocol	MQTT; confirm endpoint, payload and authentication for the data path
	LTE-FDD bands	B1 / B3 / B5 / B8; select modem for local operator
	LTE-TDD bands	B34 / B38 / B39 / B40 / B41; by supplied modem
Power	Power options	Solar power or mains supply; by project configuration
	Power design	Size the selected assembly for sensor load, reporting profile, local conditions and service access

Select the modem and communication version for the local operator or compatible receiving path.

SPECIFICATIONS

Item		Description
Installation	Mounting options	Mounting lugs / pole clamp / slotted mount, by supplied configuration
	Sensor placement	Define exposure, sensing position, cable routing, mounting and service access for each channel
Setup & Service	Local configuration	NFC activation and local setup on the supplied NFC-enabled version
	Remote maintenance	OTA firmware updates on supported configurations and the agreed management path
Platform	Data destination	Hitelecom Cloud or a compatible customer platform, by agreed integration
	Online view and alerts	View uploaded monitoring data online. Receive alerts when readings exceed configured thresholds
	LoRa data path	A LoRa deployment requires a compatible receiving gateway and an agreed platform connection
Project Selection	Channel schedule	Specify sensors, ranges, accuracy conditions, units, sampling, reporting and required alerts
	Configuration agreement	Confirm power, hardware, communications, installation conditions and platform acceptance checks in the quotation

Measurement range, accuracy and resolution are channel-specific. Confirm the selected sensing assembly and stated conditions; the station has no single accuracy value for every measurement.

Sampling, reporting and notification timing are separate project requirements. Solar supply depends on the selected power design and site conditions; communication requires an available compatible data path.

Inspect and maintain the supplied sensors and installation as specified. Individual probe, enclosure and power-system ratings must match the intended exposure and installation conditions.

DATA PATH & COMMISSIONING

Selected sensors
Configured measurements

→

H700 station
Collect and report

→

Monitoring platform
Online view and threshold alerts

Verify the selected communication path, including the receiving gateway for a LoRa version. Check a known reading at the platform, then test a configured threshold event and its recipients.

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