Hitelecom®

IoT Controller
HD20-4000 Series

Connect field signals.
Control with context.



KEY INDICATORS

I/O configuration
4 DO + 4 DI + 4 AI

Control modes
Local / remote
Conditional

Dual watchdog
Hardware + software
Recovery support

Remote management
Configuration
Firmware upgrades

Cloud workflow
Online data
Threshold alerts

OVERVIEW

The Hitelecom HD20-4000 series combines field data acquisition, equipment monitoring and control in a compact RTU. The 4DO + 4DI + 4AI reference configuration connects equipment states, analogue transmitter signals and compatible control circuits. Edge processing and local, remote or condition-based control support defined equipment actions. View uploaded monitoring data online in Hitelecom Cloud and receive alerts when configured thresholds are exceeded. Remote configuration, firmware upgrades and dual watchdogs support site maintenance.

KEY FEATURES

Field acquisition
Four digital and four analogue inputs bring equipment states and external measurements into one workflow.

Output control
Four digital outputs support permitted control actions through electrically compatible circuits.

Control modes
Local, remote and condition-based modes connect field signals with defined equipment actions.

Master/slave modes
Working roles support project-defined device coordination; interface and protocol are specified separately.

Dual watchdogs
Hardware and software mechanisms support recovery from defined software or system faults.

Cloud & maintenance
View uploaded data online, receive configured threshold alerts, and maintain settings and firmware remotely.

APPLICATIONS

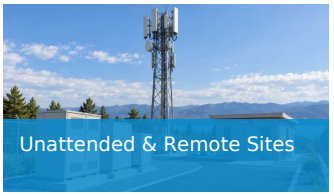

Vending & Self-Service


Retail Shelving & Fixtures


PLC & Control Systems


Environmental Facilities


Agriculture & Irrigation


Unattended & Remote Sites


Industrial Equipment


Transport & Roadside Sites

Representative application environments, including illustrative images. Eight areas cover 40 website tasks; they are selection examples, not simultaneous channels.

Item		Description
Identity	Product family	HD20-4000 Series IoT Controller / RTU.
	Product shown	HD20-4021GD; illustration identifies one hardware form.
Field I/O	Digital inputs	4 DI in the reference configuration; compatible equipment-state signals.
	Analogue inputs	4 AI in the reference configuration; compatible external transmitter signals.
	Digital outputs	4 DO in the reference configuration; permitted equipment-control actions.
Operation	Control modes	Local / remote / condition-based control.
	Operating roles	Master/slave modes; the project interface and protocol are specified separately.
Connection	Cellular version	4G version illustrated (HD20-4021GD); select the regional module and network service for the site.
	Cloud platform	Hitelecom Cloud: view uploaded monitoring data online; receive alerts above configured thresholds.

The 4 DO + 4 DI + 4 AI arrangement is the reference configuration. Allocate selected points against this I/O budget. Other combinations and the final ordering code follow the agreed specification.

DEPLOYMENT & OPERATING DETAILS

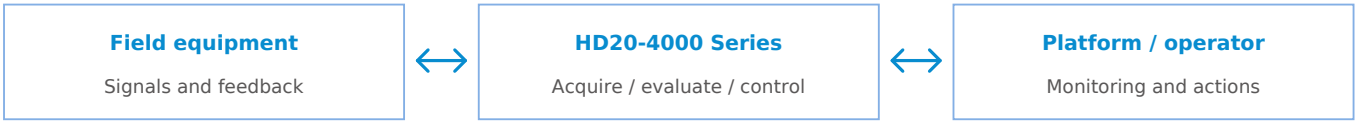
Item		Description
Reliability	Recovery support	Hardware and software watchdogs support recovery from abnormal operation.
Remote	Remote configuration	Configure supported device settings remotely.
	Remote upgrades	Remote device upgrades; deployment procedure follows the supplied firmware.
Electrical	Power supply	Obtain voltage range, current demand and wiring protection in the electrical schedule.
	I/O conditions	Specify input signal ranges, thresholds, accuracy and output topology/load limits.
Deployment	Installation and environment	Confirm dimensions, mounting, ingress protection and environmental limits for the ordered unit.
Integration	Interfaces and protocols	Protocol and interface options, data mapping and customer-platform integration follow the ordered configuration.
Conformity	Product documentation	Obtain applicable device- and region-specific declarations and test records.

Match field devices to the electrical schedule. Specify input types, ranges and thresholds, output topology and permitted loads. External switching equipment may be required; retain equipment interlocks and independent protections.

With Hitelecom Cloud integration, view uploaded monitoring data online and receive alerts when configured thresholds are exceeded. Confirm the reporting profile, network path, notification recipients and delivery during commissioning.

A command or output state does not prove physical equipment operation. Use available feedback, and verify output fallback, local priorities and restart behaviour for the delivered configuration.

DATA & CONTROL WORKFLOW



Integration path. Field wiring, data mapping, control permissions and recovery behaviour follow the selected device and project configuration.

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