Hitelecom®

IoT Controller
HD20-2000 Series



Connect field signals. Control with context.

2 DO + 2 DI + 2 AI | Local, remote and conditional control

KEY INDICATORS

I/O configuration
2 DO + 2 DI + 2 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 HD20-2000 series brings field data acquisition, equipment monitoring and local, remote or condition-based control into a compact RTU. A 2DO + 2DI + 2AI configuration connects equipment states, external measurement signals and control circuits. Edge processing, remote configuration and firmware upgrades support deployment and maintenance, with monitoring data available through Hitelecom Cloud. The 4G model illustrated is HD20-4021GD.

KEY FEATURES

Field acquisition
Two digital and two analogue inputs bring equipment status and measurements into one workflow.

Output control
Two digital outputs support defined control actions through electrically suitable circuits.

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

Master/slave modes
Master/slave working modes support project-defined device coordination.

Dual watchdog
Hardware and software watchdogs support recovery from detected abnormal operation.

Cloud & maintenance
Online data, threshold alerts, remote configuration and upgrades support site operation.

APPLICATIONS


Water & Pump Facilities


Buildings & HVAC


Industrial Equipment


Energy & Utility Cabinets


Agriculture & Irrigation


Remote Infrastructure


Environmental Facilities


Multi-site Facility Operations

Representative application environments. External equipment and installation design follow the selected device configuration.

Item		Description
Identity	Product family	HD20-2000 Series IoT Controller / RTU.
	Product shown	HD20-4021GD; illustration identifies one hardware form.
Field I/O	Digital inputs	2 DI in the reference configuration; equipment-state acquisition.
	Analogue inputs	2 AI in the reference configuration; compatible measurement signals.
	Digital outputs	2 DO in the reference configuration; defined 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: online monitoring data and configured threshold alerts.

The 2 DO + 2 DI + 2 AI arrangement is the published reference configuration. Other I/O combinations and device options are specified for the project.

DEPLOYMENT & OPERATING DETAILS

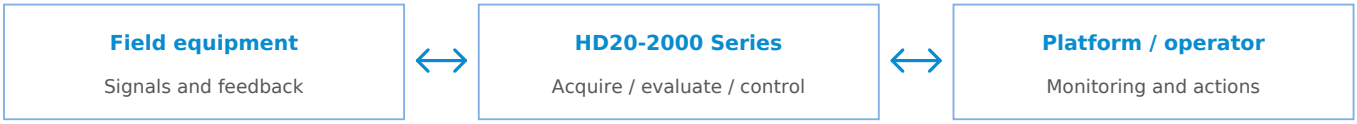
Item		Description
Reliability	Recovery support	Hardware and software watchdogs support recovery from abnormal operation.
Remote	Remote configuration	Configure supported device settings remotely.
	Remote upgrades	Remote device upgrades; deployment procedure follows the supplied firmware.
Electrical	Power 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 each field device to the input and output electrical schedule. Specify the output circuit, permitted load and any required external switching equipment; retain independent equipment protection.

With the selected Hitelecom Cloud integration, view uploaded monitoring data online and receive alerts when configured thresholds are exceeded. Define notification recipients and delivery checks during commissioning.

A control command or output state does not prove equipment movement. Use appropriate feedback. Verify restart and communication-loss behaviour for the selected control profile.

DATA & CONTROL WORKFLOW



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

Tel: +86 18616602589 / Web: www.hitelecom.com

Email: sales@hitelecom.cn

Add: 2nd Floor, Building 1, No. 116 Cheyang Road,
Songjiang District, Shanghai, China