Hitelecom®

IoT Controller & DTU
HR-10 Series

Connect your instruments.
Bring field data online.



KEY INDICATORS

Field interfaces
RS485 / TTL
4-20 mA

Cellular uplink
4G communication
Regional selection

Edge processing
Data acquisition
Local processing

Remote services
Supported control
Firmware upgrades

Cloud workflow
Online data
Threshold alerts

OVERVIEW

The Hitelecom HR-10 series is a compact wireless DTU for compatible instrument and equipment data. RS485, TTL and 4-20 mA interface options, edge processing and 4G cellular communication connect measurements to remote monitoring. View uploaded data online in Hitelecom Cloud and receive alerts when configured thresholds are exceeded. Supported equipment commands, firmware upgrades and dual watchdogs support operation and maintenance. The fitted interfaces and electrical limits follow the ordered version.

KEY FEATURES

Instrument interfaces
RS485, TTL and 4-20 mA options connect compatible serial instruments and current-loop transmitters.

Edge acquisition
Acquire and process field data close to the instrument, with data interpretation defined for the application.

Cellular uplink
Select the regional 4G module, frequency bands, antenna arrangement and SIM service for the installation.

Cloud monitoring
View uploaded monitoring data online in Hitelecom Cloud; receive alerts above configured thresholds.

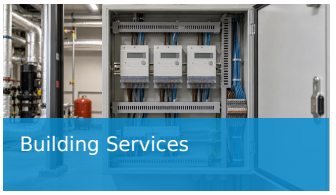
Remote operations
Use permitted equipment commands and maintain approved device firmware remotely.

Dual watchdogs
Hardware and software watchdogs support recovery from defined abnormal operating states.

APPLICATIONS

















Representative application environments. Eight areas cover 40 website tasks; these are selection examples, not a channel count.

Item		Description
Identity	Product family	HR-10 Series IoT Controller / wireless DTU.
	Product shown	HR10-T2; original supplied product image.
Interfaces	RS485	Serial physical interface; confirm settings, device protocol, addressing, data map and supported operations.
	TTL	Embedded serial interface; confirm logic levels, pin assignment, grounding and data format.
	4-20 mA	Current-loop transmitter acquisition; confirm loop wiring, transmitter supply, scaling and input limits.
Acquisition	Edge processing	Field data acquisition and processing; interpretation and update behaviour follow the selected application.
Cellular	4G communication	Select the regional module, frequency bands, antenna arrangement and SIM service.
	Reference variant	5-mode / 13-band reference configuration; confirm the exact module and band list for the ordered variant.
Platform	Hitelecom Cloud	View uploaded monitoring data online; receive alerts above configured thresholds.

The listed interfaces do not establish a simultaneous fitted combination or channel quantity. Confirm the ordered version against the instrument list. RS485 alone does not establish a protocol; TTL alone does not define a logic voltage.

DEPLOYMENT & OPERATING DETAILS

Item		Description
Remote	Control and upgrades	Supported equipment commands and remote firmware upgrades. Agree permissions, local priority and verification.
Reliability	Recovery support	Hardware and software watchdogs support recovery from defined abnormal operating states. Verify reset and reconnection.
Electrical	Power supply	Obtain rated input, polarity, consumption and wiring requirements for the ordered version.
	Instrument connection	Confirm port quantities, electrical levels, current-loop input conditions, transmitter supply and accuracy.
Deployment	Installation and environment	Confirm mounting, dimensions, ingress protection and environmental limits for the supplied configuration.
Integration	Customer platform	Agree the supported communication method, device software, data format and instrument mapping.
Conformity	Product documentation	Obtain applicable model- and destination-specific declarations or test records.

Match each external instrument to the supplied interface and electrical specification. Interface labels alone do not establish isolation, a relay output, loop power, a cloud protocol or compatibility with every instrument.

Configure instrument identity, source range, units and threshold notifications. Data availability and notification timing depend on the acquisition/reporting configuration and network connection.

Remote actions require documented, supported equipment commands. Verify physical response or instrument readback separately from transmission; retain equipment sequencing, interlocks and independent protection.

DATA & CONTROL WORKFLOW



Integration path. Fitted interfaces, data mapping, permitted commands and recovery checks follow the supplied device and project configuration.

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