Hitelecom®

SIGNAL COUPLING ISOLATOR

H100 | RF Integration Accessory

Band | RF interface | Assembly | Installation review



Product image for reference; supplied configuration governs.

KEY INDICATORS

Band Options	System Role	Housing Reference	Thermal Reference	Installation
2.4 / 5.8 GHz Selected version	RF accessory Signal coupling	IP68 Confirm assembly	-40 to +125°C* Confirm assembly	Project-specific Documentation review

OVERVIEW

The Hitelecom H100 is a signal coupling accessory for selected 2.4 GHz or 5.8 GHz RF paths. Define the radio, antenna, cable interfaces and installation requirements as one equipment configuration. Applications include packaged monitoring equipment, process-plant interfaces and equipment renewal. Verify RF performance against agreed criteria; hazardous-area use requires the applicable certificate, marking and installation conditions for the exact supplied assembly.

FEATURES

SELECTED RF BANDS

Select the required 2.4 GHz or 5.8 GHz version. Obtain the usable passband for the actual radio frequencies.

DEFINED RF INTERFACE

Specify mating ports, cable construction, impedance and permitted RF input for the equipment configuration.

RF PATH ACCEPTANCE

Agree loss and port-matching requirements, measurement method and installed-equipment checks.

ASSEMBLY CONDITIONS

Review IP68 housing reference, assembled sealing, mounting and supplied-component environmental limits.

DOCUMENTATION REVIEW

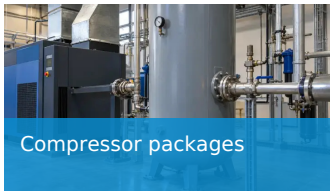
Match the exact certificate, marking and instructions to any proposed classified-area installation.

CONFIGURATION CONTROL

Retain the part revision, RF chain drawing and accepted baseline for OEM variants and replacement work.

* Published component reference; confirm the supplied component and complete assembly limits.

APPLICATIONS


Compressor packages

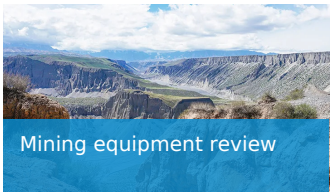

Process skids

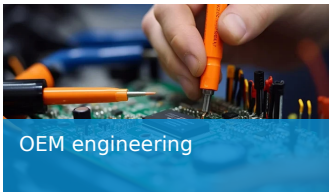

Tank-area equipment


Oil & gas equipment


Chemical transfer


Treatment equipment


Mining equipment review


OEM engineering

Eight representative environments. Website: 9 categories / 36 RF integration duties, including retrofit and equipment renewal.

Item		Description
Product	Product reference	H100 signal coupling isolator
	System function	High-frequency signal coupling; not a sensor, gateway, repeater or protocol converter
RF Path	Published bands	2.4 GHz / 5.8 GHz; version and compatibility to be confirmed
	Interface	Connector type, impedance and cable assembly to be specified
	Performance	Bandwidth, insertion loss, return loss or VSWR and permitted input power to be confirmed
	Connected equipment	Specify both ends, radio references, antenna arrangement and RF acceptance criteria
Housing	Protection reference	Published IP68; immersion conditions and assembled connector sealing to be confirmed
	Operating reference	-40°C to +125°C; confirm supplied component and complete assembly limits
	Storage reference	-40°C to +125°C; confirm supplied configuration and storage conditions

Band references do not establish a continuous passband, galvanic-isolation function or numerical loss and power limits.

SPECIFICATIONS

Item		Description
Mounting	Listed options	Mounting lugs, pole clamp or slotted mounting, depending on supplied configuration
	Assembly design	Cable bend radius, support, sealing, connector access and applicable grounding instructions
Area Review	Approval documents	Applicable certificate, marking, jurisdiction and installation conditions for the exact configuration
	Component function	Internal topology and protection function require the technical record; no blanket intrinsic-safety claim
Acceptance	Required inputs	Radio and antenna references, operating frequencies, RF budget, ports, cables and exposure
	Verification record	Agreed loss and matching measurements, equipment checks and tested assembly identification
	Change assessment	Re-evaluate substitutions, antenna relocation, cable renewal and replacement against the accepted baseline

The product name does not establish galvanic isolation, a flameproof connector transit, intrinsic safety or a specific ATEX, IECEx or mining approval. Obtain the corresponding technical and certification records before selection.

Published IP68 and -40°C to +125°C references do not establish every connector, cable or assembled-system condition. Confirm supplied-version limits and follow the applicable installation instructions.

The H100 is not a sensor, gateway, repeater or protocol converter. Sensing, diagnostics, platform connectivity and wireless range remain functions or results of separately specified equipment.

RF PATH & ASSEMBLY VERIFICATION

Specified equipment
Defined RF interface

→

H100 accessory
Selected coupling assembly

→

Agreed RF path
Compatible equipment

Record the radio, antenna, cables and H100 version. Verify the agreed RF path and applicable installation conditions. Replacement work follows the accepted baseline; no live-disconnection or hot-swap permission is assumed.

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

Email: sales@hitelecom.cn

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