

SCC-F 23212-0-110310

Gas Feed Unit

ABB SCC-F 23212-0-110310 is a sample-gas feed unit for continuous, dosed sample delivery. ABB documents two independent gas paths, corrosion-resistant metal-free gas lines and operation with the SCC-C sample-gas cooler.

IDENTITY	VERIFIED VALUE
Manufacturer	ABB
Complete model	SCC-F 23212-0-110310
Product role	Gas Feed Unit
System family	SCC Sample Conditioning

Document scope

Exact identity, verified technical data, applications, precautions, model-specific FAQ and controlled acceptance records.

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Technical Specifications

PARAMETER	VERIFIED VALUE
Product identity	SCC-F 23212-0-110310
Product type	Sample-gas feed unit
Gas paths	2 independent paths
Gas-line construction	Corrosion-resistant and metal-free
Typical companion	SCC-C sample-gas cooler
Sample-gas pressure	70 to 105 kPa
Gas-path flow	100 l/h maximum per path
Bypass flow	200 l/h maximum

PARAMETER	VERIFIED VALUE
Inlet temperature	+10 to +50 C
Dew-point condition	At least 5 C below the lowest ambient temperature
Warm-up time	Approximately 10 min plus cooler warm-up
Dead volume	Approximately 10 cm ³
Tightness	5 x 10 ⁻⁶ hPa l/s
Rotameter range	10 to 100 l/h
Status switch without I/O	250 VAC, 2 A per path
Status switch with I/O	30 V, 1 A

Engineering boundary

Use SCC-F only within the documented sample-gas limits. It is not approved for ignitable gas-air or gas-oxygen mixtures, flammable sample gas or hazardous-area installation.

Functions and Applications

Dual gas paths

Feeds two independent sample-gas streams through separate conditioning paths.

Dosed sample delivery

Uses the documented rotameter and needle-valve arrangement for controlled flow.

Corrosion-resistant path

Keeps the sample path metal-free for the documented gas-conditioning duty.

Cooler integration

Works with the SCC-C cooler when the inlet dew-point condition requires conditioning.

Common Applications

APPLICATION	ENGINEERING CONTEXT
Continuous gas analysis	Feeds a controlled sample stream to an approved analyzer system.
Dual-stream conditioning	Maintains two independent sample-gas paths.
SCC-C integration	Operates with the ABB sample-gas cooler where dew-point control is required.
Flow-supervised sampling	Uses the documented flow and status-switch arrangement for monitored delivery.

Controlled acceptance duty

Confirm identity, interfaces, configured values and functional response against the installed-system record before release.

Engineering Precautions

NO.	PRECAUTION
1	Verify ABB SCC-F 23212-0-110310 before installation.
2	Confirm sample-gas pressure and inlet temperature are within ABB limits.
3	Maintain the required inlet dew-point margin or use approved conditioning.
4	Do not use SCC-F with ignitable gas-air or gas-oxygen mixtures.
5	Do not use SCC-F for flammable sample gas or in hazardous areas.
6	Set each gas path within the documented flow range.
7	Complete the required warm-up before evaluating sample stability.
8	Verify flow, tightness and status-switch operation before release.

Model-Specific FAQ - Part 1

QUESTION	ANSWER
What is ABB SCC-F 23212-0-110310?	It is an ABB sample-gas feed unit for continuous, dosed delivery.
How many gas paths does ABB SCC-F 23212-0-110310 provide?	ABB documents two independent sample-gas paths.
What pressure range applies to ABB SCC-F 23212-0-110310?	The documented sample-gas pressure range is 70 to 105 kPa.
What flow applies to ABB SCC-F 23212-0-110310?	ABB specifies up to 100 l/h per gas path and up to 200 l/h for the bypass.

Related Products

MODEL	APTER POWER PAGE
ABB TU831V1 3BSE013235R1	View ABB TU831V1 3BSE013235R1
ABB DSBC174 3BSE012211R1	View ABB DSBC174 3BSE012211R1
ABB SR511 3BSE000863R1	View ABB SR511 3BSE000863R1

Model-Specific FAQ - Part 2

QUESTION	ANSWER
Which cooler works with ABB SCC-F 23212-0-110310?	ABB documents operation with the SCC-C sample-gas cooler.
What dew-point condition applies to ABB SCC-F 23212-0-110310?	The inlet dew point must be at least 5 C below the lowest ambient temperature unless approved conditioning is used.
Can ABB SCC-F 23212-0-110310 handle flammable sample gas?	No. ABB excludes flammable sample gas, ignitable mixtures and hazardous-area installation.
What confirms ABB SCC-F 23212-0-110310 commissioning?	Both paths must meet pressure, temperature, flow, tightness and status-switch acceptance checks.

Related Products and Release

MODEL	APTER POWER PAGE
ABB 07DI92	View ABB 07DI92
ABB 07KT92 JR5250500R0902	View ABB 07KT92 JR5250500R0902
ABB 07KR91 GJR5250000R0101	View ABB 07KR91 GJR5250000R0101

MANUFACTURER SOURCE RECORDS

1. ABB SCC-F Sample Gas Feed Unit Data Sheet DS_SCC_EN_E
2. ABB SCC Sample Conditioning System Technical Record

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