

Installation Identity and Scope

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.

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

Controlled engineering copy

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.

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313

EMAIL sales13@apterpower.com

WEBSITE www.apterpower.com



SCC-F 23212-0-110310

Pre-Installation Plan

NO.	REQUIRED ACTION
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.

Before Energization

CONTROL	REQUIRED RECORD
Identity	Complete SCC-F 23212-0-110310 marking and hardware role
Connections	Approved power, grounding and protocol interfaces
Configuration	Controlled backup, addressing and protocol files
Test plan	Defined acceptance values and controlled restart authority

Release hold point

Do not disturb the installed device until exact marking, interfaces, companion hardware and configured function are documented.

Wiring, Network and Configuration Checks

CHECK	MODEL-SPECIFIC REQUIREMENT
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
Inlet temperature	+10 to +50 C
Dew-point condition	At least 5 C below the lowest ambient temperature

Configuration 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.

Expected Technical Values

PARAMETER	VALUE
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

Commissioning and Acceptance

TEST	ACCEPTANCE CONDITION
Identity	Manufacturer and complete SCC-F 23212-0-110310 marking match the record.
Power	Measured supply agrees with the documented operating requirement.
Interface	Connectors, addressing and network parameters match the approved project.
Configuration	Protocol files, framing and mapped data areas match the controlled backup.
Diagnostics	No unexplained status, counter or communication fault remains.
Functional proof	Controlled bidirectional data transfer completes successfully.
Release	Final values and test results are retained with restart approval.

Questions to Resolve

QUESTION	ENGINEERING 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.

Related Products

MODEL	APTER POWER PAGE
ABB 07KP60R101 GJV3074360R101	View ABB 07KP60R101 GJV3074360R101
ABB 07NG61R1 GJV3074311R1	View ABB 07NG61R1 GJV3074311R1
ABB 07PS62R2 GJV3074332R2	View ABB 07PS62R2 GJV3074332R2

Source, Related Products and Release

MODEL	APTER POWER PAGE
ABB 07SK90R1 GJR5250200R0001	View ABB 07SK90R1 GJR5250200R0001
ABB 07ZE61R302 GJV3074321R302	View ABB 07ZE61R302 GJV3074321R302
ABB 086363-002	View ABB 086363-002

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

Controlled Release Summary

RELEASE ITEM	REQUIRED EVIDENCE
Identity	SCC-F 23212-0-110310 recorded
Interface	Connections and companion hardware verified
Configuration	Installed values agree with approved record
Functional proof	Controlled test completed without unexplained fault

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