

INDUSTRIAL AUTOMATION PRODUCT

AP303-21021001-STD

pH ORP Sensor

Combination pH or Redox electrochemical measurement in flow or immersion service

IDENTITY	VERIFIED VALUE
Manufacturer	ABB
System family	ABB AP300 combination pH/Redox sensor system
Part number	AP303-21021001-STD

APTER POWER SALES TEAM

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Technical Specifications

Technical values below are limited to the named ABB product record.

PARAMETER	TECHNICAL VALUE
Order identity	AP303-21021001-STD
Sensor model	AP303
Series	AP300
Measurement	pH or Redox (ORP)
Sensor profile	Notched
Applications	Flow or immersion
Process connection	3/4 in NPT
Conduit interface	3/4 in NPT
Body material	PVDF composite sensor construction
Reference system	Gel electrolyte
Junction	PTFE
Temperature element	Integrated in AP300 combination design
Family operating capability	Up to 105 degC and 6 bar for documented gel variants
Optional accessory	Junction-box arrangement
Official data sheet	SS/AP300_1

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System Role and Architecture

Combination pH or Redox electrochemical measurement in flow or immersion service

FUNCTION 1

Uses a notched AP303 sensing profile

FUNCTION 2

Supports pH or Redox measurement

FUNCTION 3

Installs in flow or immersion service

FUNCTION 4

Uses documented three-quarter-inch NPT interfaces

Matched system components

- compatible ABB analyzer
- documented AP300 cable and junction arrangement
- approved process fitting
- controlled calibration and cleaning procedure

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	compatible ABB analyzer
Companion hardware	documented AP300 cable and junction arrangement
Field connection	approved process fitting
Primary system function	Uses a notched AP303 sensing profile
Controlled acceptance duty	Process pH measurement

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Applications and Engineering Context

Process pH measurement

Uses a notched AP303 sensing profile

Redox potential monitoring

Supports pH or Redox measurement

Flow-cell installation

Installs in flow or immersion service

Immersion sensor service

Uses documented three-quarter-inch NPT interfaces

TECHNICAL NOTE

The AP300 data sheet documents the AP303 family but does not decode the full 21021001-STD suffix; verify the nameplate, electrode selection and analyzer configuration before installation.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	AP303-21021001-STD / AP303-21021001-STD recorded
Physical interface	compatible ABB analyzer
Companion check	documented AP300 cable and junction arrangement
Functional proof	Uses a notched AP303 sensing profile
Application test	Process pH measurement

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Engineering Precautions

- 1 Verify the complete AP303-21021001-STD marking and its assigned ABB AP300 combination pH/Redox sensor system position before work.
- 2 Place the connected process pH measurement process in the approved maintenance state.
- 3 Isolate every documented power, signal and stored-energy source before disconnecting conductors or cables.
- 4 Record the installed slot, connectors, conductors, addressing, firmware and software configuration before removal.
- 5 Use ESD-safe handling and protect keyed electrical, fiber or sensor interfaces as applicable.

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MANUFACTURER SOURCE RECORD

ABB Combination pH/Redox (ORP) Sensors AP300 Series data sheet
SS/AP300_1

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