

AP303-21021001-STD

pH ORP Sensor

CONTROLLED ENGINEERING COPY

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.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	AP303-21021001-STD
Manufacturer part	AP303-21021001-STD
Hardware type	AP303-21021001-STD
System family	ABB AP300 combination pH/Redox sensor system



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01 PRE-INSTALLATION PLAN

- 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.

MATCHED HARDWARE

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

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
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

02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED 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

FIELD 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.

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	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

04 RETURN-TO-SERVICE RECORD

- ☐
- Confirm the installed compatible ABB analyzer and documented AP300 cable and junction arrangement against the approved project.
- ☐
- Restore power in a controlled sequence and review device, network and host diagnostics.
- ☐
- Prove the intended redox potential monitoring function and retain the final acceptance result.
- ☐
- Confirm the intended process response before normal operation.

VERIFICATION RECORD

PRODUCT IDENTITY	AP303-21021001-STD
INSTALLED POSITION	Documented ABB AP300 combination pH/Redox sensor system position
VERIFICATION METHOD	Controlled inspection and functional test
RELEASE RECORD	Final diagnostic state retained before service

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
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SOURCE IDENTIFIERS

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

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