

3900-02-10

Rosemount 3900 general-purpose pH sensor

CONTROLLED ENGINEERING COPY

Mount through the documented MNPT connection, protect the GPLR glass bulb, terminate the integral cable at the assigned analyzer and verify two-point calibration plus temperature response before service.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	3900-02-10
Manufacturer part	3900-02-10
Hardware type	3900
System family	Rosemount liquid-analysis measurement system



APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313
EMAIL sales13@apterpower.com
WEBSITE www.apterpower.com



01 PRE-INSTALLATION PLAN

- 1

Verify the complete 3900-02-10 marking and the assigned Rosemount liquid-analysis measurement system position before work.
- 2

Place the connected machine or process in the approved maintenance state before disturbing 3900-02-10.
- 3

Isolate the applicable power and field energy, then confirm a safe state before disconnecting 3900-02-10.
- 4

Record connector, conductor, slot and configuration identities before removal of 3900-02-10.
- 5

Use ESD controls and protect keyed interfaces, exposed contacts and electronic assemblies during handling.

MATCHED HARDWARE

- Compatible Rosemount analyzer/transmitter
- Approved insertion or flow-through fitting
- Shielded sensor cable
- Process-compatible seal and cleaning arrangement

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	3900-02-10 / 3900-02-10 recorded
Physical interface	Compatible Rosemount analyzer/transmitter
Companion check	Approved insertion or flow-through fitting
Functional proof	Uses a double-junction reference architecture
Application test	Wastewater pH monitoring

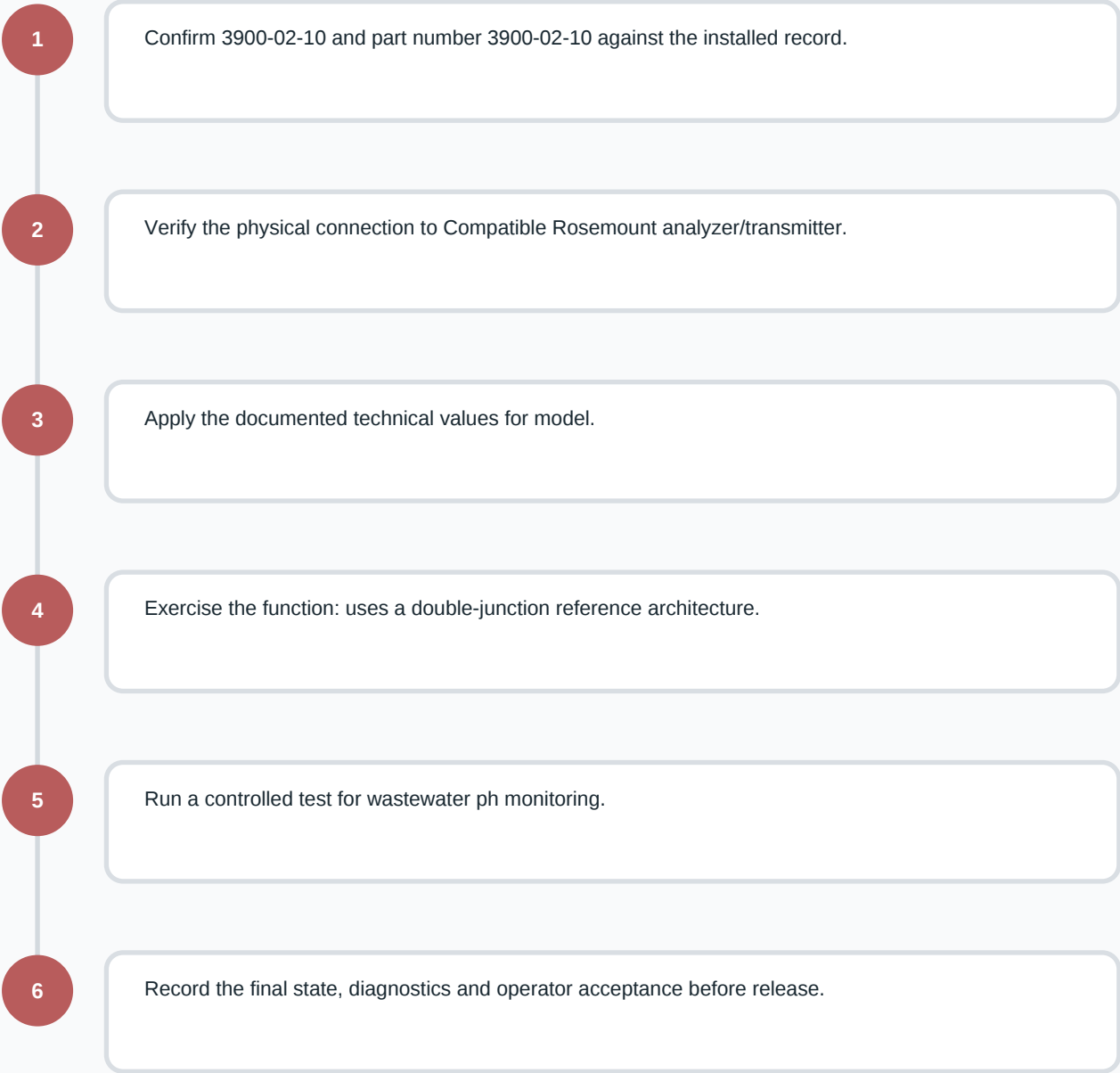
02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Model	3900
Integral preamplifier	None
Integral cable length	15 ft (5 m)
Measuring electrode	GPLR pH glass
Measurement range	0 to 14 pH
Operating temperature	-10 to 100 degC
Temperature compensation	Pt-100
Front process connection	3/4 in and 1 in MNPT
Rear process connection	1 in MNPT
Body material	PPS (Ryton)
Solution ground	Built in

FIELD NOTE

Mount through the documented MNPT connection, protect the GPLR glass bulb, terminate the integral cable at the assigned analyzer and verify two-point calibration plus temperature response before service.

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	3900-02-10 / 3900-02-10 recorded
Physical interface	Compatible Rosemount analyzer/transmitter
Companion check	Approved insertion or flow-through fitting
Functional proof	Uses a double-junction reference architecture
Application test	Wastewater pH monitoring

04 RETURN-TO-SERVICE RECORD

- ☐ Confirm that the installed companion hardware and approved project match the 3900-02-10 arrangement.
- ☐ Restore power in a controlled sequence and review device, rack and host diagnostics.
- ☐ Prove the intended function and retain the final test result before returning 3900-02-10 to service.
- ☐ Confirm the intended process response before normal operation.

VERIFICATION RECORD

PRODUCT IDENTITY	3900-02-10
INSTALLED POSITION	Documented Rosemount liquid-analysis measurement 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
KJ3224X1-EA1-12P4367 X022	Related Rosemount product	View KJ3224X1-EA1-12P4367X022 page
FSROC-EXP-EXP	Related Rosemount product	View FSROC-EXP-EXP page
A6560	Related Rosemount product	View A6560 page
A6120	Related Rosemount product	View A6120 page
A6312-06	Related Rosemount product	View A6312-06 page
IC695CPE330	Related Rosemount product	View IC695CPE330 page
A6210	Related Rosemount product	View A6210 page
A6110	Related Rosemount product	View A6110 page

SOURCE IDENTIFIERS

Rosemount 396/396P or 3900 product data sheet
00813-0100-3396 / 00813-0100-3900

APTER POWER SALES TEAM

WHATSAPP / PHONE	+86 180 3023 5313
EMAIL	sales13@apterpower.com
WEBSITE	www.apterpower.com

