

396P-02-12-55

Rosemount 396P TUpH ORP sensor

It measures oxidation-reduction potential through a 15 ft integral cable for compatible Rosemount liquid analyzers.

PRODUCT SNAPSHOT

BRAND

Rosemount

FAMILY

Rosemount liquid-analysis measurement syst

PART

396P-02-12-55

HS CODE

8537101190

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PRODUCT OVERVIEW

It measures oxidation-reduction potential through a 15 ft integral cable for compatible Rosemount liquid analyzers.

1

Uses a double-junction reference architecture

2

Includes a built-in solution ground

3

Supports automatic temperature compensation

4

Mounts through documented threaded process connections

SYSTEM COMPONENTS

Compatible Rosemount analyzer/transmitter

Approved insertion or flow-through fitting

Shielded sensor cable

Process-compatible seal and cleaning arrangement

TECHNICAL NOTE

Protect the platinum element and reference junction, preserve the 15 ft cable routing and shield termination, confirm process compatibility, and validate the ORP response with an approved standard before control use.

TECHNICAL DATA

PARAMETER	VALUE
Model	396P
Integral preamplifier	None
Integral cable length	15 ft (4.57 m)
Measuring electrode	Platinum ORP
Measurement range	-1500 to +1500 mV
Compatible transmitters	Rosemount 56, 1056, 1057, 1066, 5081

PARAMETER	VALUE
Temperature range	0 to 100 degC
Pressure range; hemi bulb	0 to 150 psig (0 to 10.34 barg)
Minimum conductivity	100 uS/cm
Process threads	1 in MNPT front and rear
Body material	Reinforced polypropylene
Temperature compensation	Pt-100

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
KJ4001X1-BA3-12P3378X012...	Related Rosemount product	View KJ4001X1-BA3-12P3378X012... page
1C31166G02	Related Rosemount product	View 1C31166G02 page
EN-204-EN-204-00-000	Related Rosemount product	View EN-204-EN-204-00-000 page
1C31169G02	Related Rosemount product	View 1C31169G02 page
FX-490	Related Rosemount product	View FX-490 page
ES0350-M1A05L-27N0	Related Rosemount product	View ES0350-M1A05L-27N0 page
960177-02	Related Rosemount product	View 960177-02 page
KJ2003X1-BB1	Related Rosemount product	View KJ2003X1-BB1 page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Wastewater pH monitoring

Uses a double-junction reference architecture

Chemical neutralization control

Includes a built-in solution ground

Scrubber and effluent analysis

Supports automatic temperature compensation

Abrasive or coating process measurement

Mounts through documented threaded process connections

PRODUCT PRECAUTIONS

- 1 Verify the complete 396P-02-12-55 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 396P-02-12-55.
- 3 Isolate the applicable power and field energy, then confirm a safe state before disconnecting 396P-02-12-55.
- 4 Record connector, conductor, slot and configuration identities before removal of 396P-02-12-55.
- 5 Use ESD controls and protect keyed interfaces, exposed contacts and electronic assemblies during handling.
- 6 Confirm that the installed companion hardware and approved project match the 396P-02-12-55 arrangement.
- 7 Restore power in a controlled sequence and review device, rack and host diagnostics.
- 8 Prove the intended function and retain the final test result before returning 396P-02-12-55 to service.

ENGINEER FAQ

Q1 Does 396P-02-12-55 match Compatible Rosemount analyzer/transmitter in a Wastewater pH monitoring installation?

Verify the complete 396P-02-12-55 marking, the documented Rosemount liquid-analysis measurement system position and the installed Compatible Rosemount analyzer/transmitter before fitting the assembly.

Q3 Which Rosemount liquid-analysis measurement system records should be captured before removing 396P-02-12-55?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with 396P-02-12-55 before disconnection.

Q5 Which Approved insertion or flow-through fitting condition should be checked when 396P-02-12-55 reports an abnormal state?

Check the Approved insertion or flow-through fitting supply, seating and connection first, then compare channel diagnostics with the recorded 396P-02-12-55 baseline.

Q7 What maintenance evidence is required after 396P-02-12-55 is used for Scrubber and effluent analysis?

Retain the nameplate record, corrective action, final diagnostics and a controlled scrubber and effluent analysis functional-test result for 396P-02-12-55.

Q2 How should 396P-02-12-55 be wired when it must uses a double-junction reference architecture?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for 396P-02-12-55; then continuity-test the affected path.

Q4 What controlled test confirms that 396P-02-12-55 can includes a built-in solution ground?

Apply the approved field or simulated stimulus, observe the Rosemount liquid-analysis measurement system indication and confirm the intended response without bypassing the normal interlocks.

Q6 Can 396P-02-12-55 be moved directly into Chemical neutralization control without validating Process-compatible seal and cleaning arrangement?

No. Confirm the Process-compatible seal and cleaning arrangement, revision, connection scheme and Rosemount liquid-analysis measurement system configuration before transferring 396P-02-12-55 to that duty.

Q8 How should 396P-02-12-55 be returned to service in Abrasive or coating process measurement?

Restore power under control, verify supports automatic temperature compensation, exercise the intended signal path and release 396P-02-12-55 only after the Rosemount liquid-analysis measurement system remains in its approved operating state.

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

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