

INDUSTRIAL AUTOMATION PRODUCT

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.

IDENTITY	VERIFIED VALUE
Manufacturer	Rosemount
System family	Rosemount liquid-analysis measurement system
Part number	396P-02-12-55
HS code	8537101190

APTER POWER SALES TEAM

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Technical Specifications

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

PARAMETER	TECHNICAL 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
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

ENGINEERING DATA SUMMARY

DATA GROUP	VERIFIED ASSIGNMENT
Installed host / carrier	Compatible Rosemount analyzer/transmitter
Companion hardware	Approved insertion or flow-through fitting
Field connection	Shielded sensor cable
Primary system function	Uses a double-junction reference architecture
Controlled acceptance duty	Wastewater pH monitoring

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System Role and Architecture

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

FUNCTION 1

Uses a double-junction reference architecture

FUNCTION 2

Includes a built-in solution ground

FUNCTION 3

Supports automatic temperature compensation

FUNCTION 4

Mounts through documented threaded process connections

Matched system components

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

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	Compatible Rosemount analyzer/transmitter
Companion hardware	Approved insertion or flow-through fitting
Field connection	Shielded sensor cable
Primary system function	Uses a double-junction reference architecture
Controlled acceptance duty	Wastewater pH monitoring

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Applications and Engineering Context

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

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.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	396P-02-12-55 / 396P-02-12-55 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

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Engineering 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.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
38B6041X082	Related Rosemount product	View 38B6041X082 page
KJ3222X1-BA1-12P2532 X092...	Related Rosemount product	View KJ3222X1-BA1-12P2532X092... page
PR6424-013-140-CON02 1-91...	Related Rosemount product	View PR6424-013-140-CON021-91... page
PR6424-000-041-CON04 1	Related Rosemount product	View PR6424-000-041-CON041 page
KJ4001X1-BE1-12P0818 X072...	Related Rosemount product	View KJ4001X1-BE1-12P0818X072... page
SP4401	Related Rosemount product	View SP4401 page
SP3401	Related Rosemount product	View SP3401 page
12P4705X062	Related Rosemount product	View 12P4705X062 page

MANUFACTURER SOURCE RECORD

Rosemount 396/396P or 3900 product data sheet

00813-0100-3396 / 00813-0100-3900

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