

## 396P-02-12-55

### Rosemount 396P TUpH ORP sensor

CONTROLLED ENGINEERING COPY

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.

| INSTALLATION IDENTITY | REQUIRED VALUE                               |
|-----------------------|----------------------------------------------|
| Complete model        | 396P-02-12-55                                |
| Manufacturer part     | 396P-02-12-55                                |
| Hardware type         | 396P                                         |
| System family         | Rosemount liquid-analysis measurement system |



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# 01 PRE-INSTALLATION PLAN

- 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.

## 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           | 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                      |

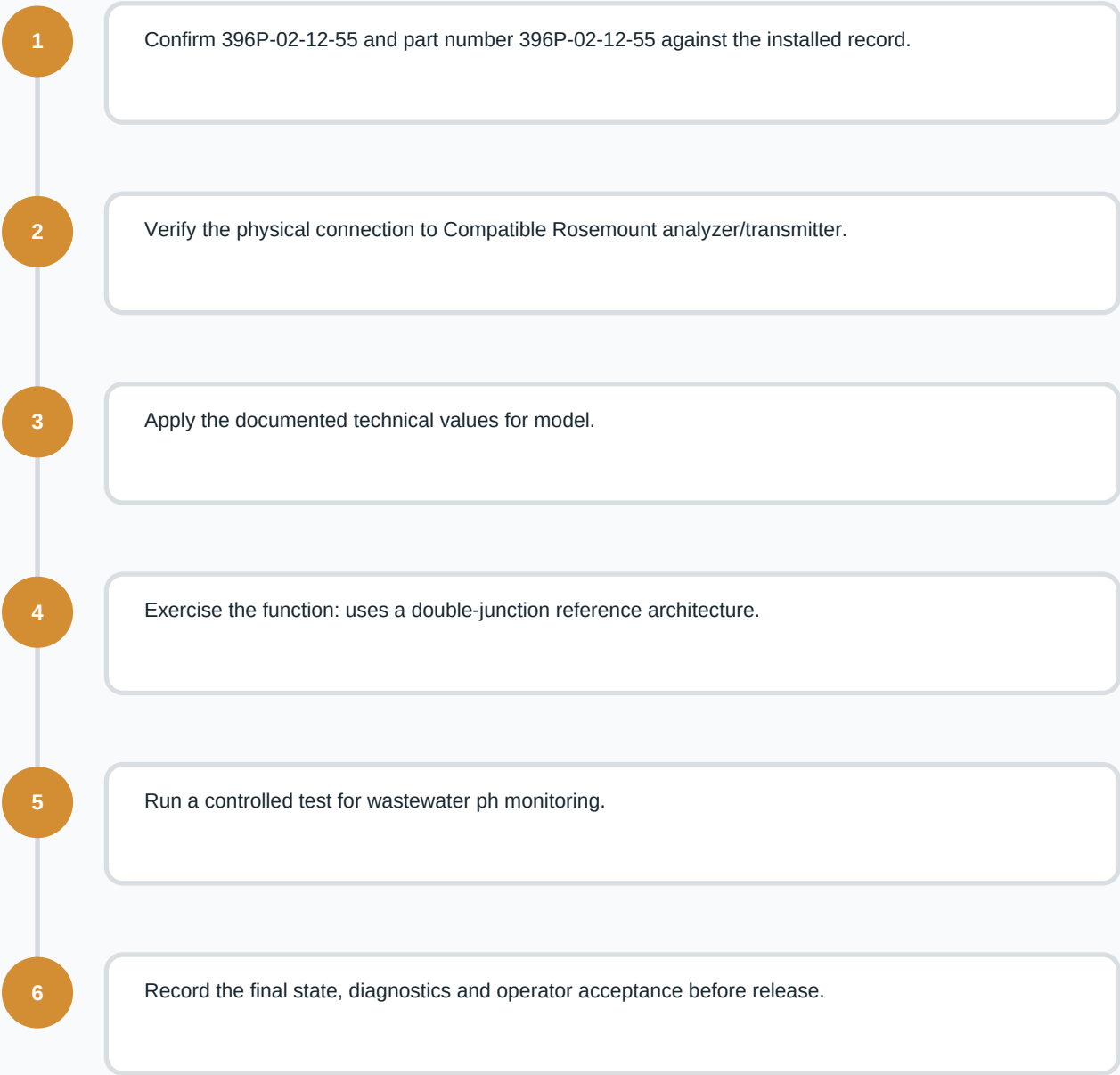
## 02 WIRING & INTERFACE CHECKS

| CHECK ITEM                | REQUIRED 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                               |

### FIELD 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.

### 03 COMMISSIONING WORKFLOW



#### COMMISSIONING ACCEPTANCE EVIDENCE

| EVIDENCE ITEM      | 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                      |

## 04 RETURN-TO-SERVICE RECORD

- ☐
- Confirm that the installed companion hardware and approved project match the 396P-02-12-55 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 396P-02-12-55 to service.
- ☐
- Confirm the intended process response before normal operation.

### VERIFICATION RECORD

|                     |                                                                  |
|---------------------|------------------------------------------------------------------|
| PRODUCT IDENTITY    | 396P-02-12-55                                                    |
| 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                                      |
|------------------------------|---------------------------|-------------------------------------------------------|
| EZ1000                       | Related Rosemount product | <a href="#">View EZ1000 page</a>                      |
| KJ3222X1-BA1-12P2532X112 ... | Related Rosemount product | <a href="#">View KJ3222X1-BA1-12P2532X112... page</a> |
| KJ3221X1-BA1-12P2531X122 ... | Related Rosemount product | <a href="#">View KJ3221X1-BA1-12P2531X122... page</a> |
| 775XD11NAWA3WK9              | Related Rosemount product | <a href="#">View 775XD11NAWA3WK9 page</a>             |
| 098-01257-01                 | Related Rosemount product | <a href="#">View 098-01257-01 page</a>                |
| 5X00167G01                   | Related Rosemount product | <a href="#">View 5X00167G01 page</a>                  |
| PR6423-010-040-CON021        | Related Rosemount product | <a href="#">View PR6423-010-040-CON021 page</a>       |
| CL6821X1-A5-41B5222X422-65   | Related Rosemount product | <a href="#">View CL6821X1-A5-41B5222X422-65 page</a>  |

### SOURCE IDENTIFIERS

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

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