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Mettler-Toledo Pac Rim AG  
Taiwan Branch (Switzerland)  
Jiu Zong Rd., Neihu District  
Taipei, Taiwan R.O.C., 114 TAIWAN

## Verification/Calibration Certificate M800 Water

| Service Order Information |                                   |                |                       |
|---------------------------|-----------------------------------|----------------|-----------------------|
| Account Name              | Mettler-Toledo Pac Rim AG         | Contact Name   | Stanley Lin           |
| Address 1                 | Taiwan Branch (Switzerland)       | Title/Function | stanley.lin@mt.com    |
| Address 2                 | Jiu Zong Rd., Neihu District      | Phone          | +886886226578898      |
| Address 3                 | Taipei, Taiwan R.O.C., 114 TAIWAN | Email          | brian.dinnigan@mt.com |
| Service Order             | 220551373                         | Procedure      | A-TP58170208-A        |

| Customer Equipment |            |                      |            |
|--------------------|------------|----------------------|------------|
| Model              | M800 Water | Tag # / ID           |            |
| Part Number        | 58 000 802 | Calibration Date     | 7-Feb-2022 |
| Serial Number      | B723215146 | Calibration Due Date | 7-Feb-2023 |

| Reference Equipment |              |          |            |                      |
|---------------------|--------------|----------|------------|----------------------|
|                     | Manufacturer | Model    | Serial     | Calibration Due Date |
| Multimeter          | Agilent      | 34401A   | MY41028774 | 31-Aug-2022          |
| Digital Simulator 1 | MT           | 58110094 | 5815150566 |                      |
| Digital Simulator 2 | MT           | 58110095 | 5815150567 |                      |
| Digital Simulator 3 | MT           | 58110096 | 5815150569 |                      |
| Digital Simulator 4 | MT           | 58110097 | 5815150570 |                      |
| Digital Simulator 5 |              |          |            |                      |

**As Found: Analog Output #1**

| Setting |    | Measured (mA) | Deviation (mA) | Limit ( $\pm$ mA) | Pass/Fail |
|---------|----|---------------|----------------|-------------------|-----------|
| 4.00    | mA | 3.97          | -0.03          | 0.05              | Pass      |
| 12.00   | mA | 11.99         | -0.01          | 0.05              | Pass      |
| 20.00   | mA | 20.00         | 0.00           | 0.05              | Pass      |

**As Found: Analog Output #2**

| Setting |    | Measured (mA) | Deviation (mA) | Limit ( $\pm$ mA) | Pass/Fail |
|---------|----|---------------|----------------|-------------------|-----------|
| 4.00    | mA | 3.99          | -0.01          | 0.05              | Pass      |
| 12.00   | mA | 12.00         | -0.01          | 0.05              | Pass      |
| 20.00   | mA | 20.00         | 0.00           | 0.05              | Pass      |

**As Found: Analog Output #3**

| Setting |    | Measured (mA) | Deviation (mA) | Limit ( $\pm$ mA) | Pass/Fail |
|---------|----|---------------|----------------|-------------------|-----------|
| 4.00    | mA | 3.99          | -0.01          | 0.05              | Pass      |
| 12.00   | mA | 11.99         | -0.01          | 0.05              | Pass      |
| 20.00   | mA | 19.99         | -0.01          | 0.05              | Pass      |

**As Found: Analog Output #4**

| Setting |    | Measured (mA) | Deviation (mA) | Limit ( $\pm$ mA) | Pass/Fail |
|---------|----|---------------|----------------|-------------------|-----------|
| 4.00    | mA | 3.99          | -0.01          | 0.05              | Pass      |
| 12.00   | mA | 11.99         | -0.01          | 0.05              | Pass      |
| 20.00   | mA | 19.99         | -0.01          | 0.05              | Pass      |

**As Found: Analog Output #5**

| Setting |    | Measured (mA) | Deviation (mA) | Limit ( $\pm$ mA) | Pass/Fail |
|---------|----|---------------|----------------|-------------------|-----------|
| 4.00    | mA | 3.99          | -0.01          | 0.05              | Pass      |
| 12.00   | mA | 12.00         | 0.00           | 0.05              | Pass      |
| 20.00   | mA | 20.01         | 0.00           | 0.05              | Pass      |

**As Found: Analog Output #6**

| Setting |    | Measured (mA) | Deviation (mA) | Limit ( $\pm$ mA) | Pass/Fail |
|---------|----|---------------|----------------|-------------------|-----------|
| 4.00    | mA | 3.99          | -0.01          | 0.05              | Pass      |
| 12.00   | mA | 12.00         | 0.00           | 0.05              | Pass      |
| 20.00   | mA | 20.01         | 0.00           | 0.05              | Pass      |

**As Found: Analog Output #7**

| Setting |    | Measured (mA) | Deviation (mA) | Limit ( $\pm$ mA) | Pass/Fail |
|---------|----|---------------|----------------|-------------------|-----------|
| 4.00    | mA | 3.99          | -0.01          | 0.05              | Pass      |
| 12.00   | mA | 12.00         | 0.00           | 0.05              | Pass      |
| 20.00   | mA | 20.01         | 0.00           | 0.05              | Pass      |

**As Found: Analog Output #8**

| Setting |    | Measured (mA) | Deviation (mA) | Limit ( $\pm$ mA) | Pass/Fail |
|---------|----|---------------|----------------|-------------------|-----------|
| 4.00    | mA | 3.99          | -0.01          | 0.05              | Pass      |
| 12.00   | mA | 12.00         | 0.00           | 0.05              | Pass      |
| 20.00   | mA | 20.00         | 0.00           | 0.05              | Pass      |

**As Left: Analog Output #1**

| Setting |    | Measured (mA) | Deviation (mA) | Limit ( $\pm$ mA) | Pass/Fail |
|---------|----|---------------|----------------|-------------------|-----------|
| 4.00    | mA | 4.00          | 0.00           | 0.05              | Pass      |
| 12.00   | mA | 12.00         | 0.00           | 0.05              | Pass      |
| 20.00   | mA | 20.00         | 0.00           | 0.05              | Pass      |

**As Left: Analog Output #2**

| Setting |    | Measured (mA) | Deviation (mA) | Limit ( $\pm$ mA) | Pass/Fail |
|---------|----|---------------|----------------|-------------------|-----------|
| 4.00    | mA | 3.99          | -0.01          | 0.05              | Pass      |
| 12.00   | mA | 12.00         | -0.01          | 0.05              | Pass      |
| 20.00   | mA | 20.00         | 0.00           | 0.05              | Pass      |

**As Left: Analog Output #3**

| Setting |    | Measured (mA) | Deviation (mA) | Limit ( $\pm$ mA) | Pass/Fail |
|---------|----|---------------|----------------|-------------------|-----------|
| 4.00    | mA | 3.99          | -0.01          | 0.05              | Pass      |
| 12.00   | mA | 11.99         | -0.01          | 0.05              | Pass      |
| 20.00   | mA | 19.99         | -0.01          | 0.05              | Pass      |

**As Left: Analog Output #4**

| Setting |    | Measured (mA) | Deviation (mA) | Limit ( $\pm$ mA) | Pass/Fail |
|---------|----|---------------|----------------|-------------------|-----------|
| 4.00    | mA | 3.99          | -0.01          | 0.05              | Pass      |
| 12.00   | mA | 11.99         | -0.01          | 0.05              | Pass      |
| 20.00   | mA | 19.99         | -0.01          | 0.05              | Pass      |

**As Left: Analog Output #5**

| Setting |    | Measured (mA) | Deviation (mA) | Limit ( $\pm$ mA) | Pass/Fail |
|---------|----|---------------|----------------|-------------------|-----------|
| 4.00    | mA | 3.99          | -0.01          | 0.05              | Pass      |
| 12.00   | mA | 12.00         | 0.00           | 0.05              | Pass      |
| 20.00   | mA | 20.01         | 0.00           | 0.05              | Pass      |

**As Left: Analog Output #6**

| Setting |    | Measured (mA) | Deviation (mA) | Limit ( $\pm$ mA) | Pass/Fail |
|---------|----|---------------|----------------|-------------------|-----------|
| 4.00    | mA | 3.99          | -0.01          | 0.05              | Pass      |
| 12.00   | mA | 12.00         | 0.00           | 0.05              | Pass      |
| 20.00   | mA | 20.01         | 0.00           | 0.05              | Pass      |

**As Left: Analog Output #7**

| Setting |    | Measured (mA) | Deviation (mA) | Limit ( $\pm$ mA) | Pass/Fail |
|---------|----|---------------|----------------|-------------------|-----------|
| 4.00    | mA | 3.99          | -0.01          | 0.05              | Pass      |
| 12.00   | mA | 12.00         | 0.00           | 0.05              | Pass      |
| 20.00   | mA | 20.01         | 0.00           | 0.05              | Pass      |

**As Left: Analog Output #8**

| Setting |    | Measured (mA) | Deviation (mA) | Limit ( $\pm$ mA) | Pass/Fail |
|---------|----|---------------|----------------|-------------------|-----------|
| 4.00    | mA | 3.99          | -0.01          | 0.05              | Pass      |
| 12.00   | mA | 12.00         | 0.00           | 0.05              | Pass      |
| 20.00   | mA | 20.00         | 0.00           | 0.05              | Pass      |

| Relay Function Test |             |                   |        |             |             |                   |        |
|---------------------|-------------|-------------------|--------|-------------|-------------|-------------------|--------|
| Relay 1             |             |                   |        | Relay 2     |             |                   |        |
| Relay State         | Requirement | Ohm Meter Reading | Result | Relay State | Requirement | Ohm Meter Reading | Result |
| On                  | >20MΩ       | >20               | Pass   | On          | <1Ω         | 0.54              | Pass   |
| OFF                 | <1Ω         | 0.77              | Pass   | OFF         | >20MΩ       | >20               | Pass   |
| Relay 3             |             |                   |        | Relay 4     |             |                   |        |
| Relay State         | Requirement | Ohm Meter Reading | Result | Relay State | Requirement | Ohm Meter Reading | Result |
| On                  | <1Ω         | 0.51              | Pass   | On          | <1Ω         | 0.52              | Pass   |
| OFF                 | >20MΩ       | >20               | Pass   | OFF         | >20MΩ       | >20               | Pass   |
| Relay 5             |             |                   |        | Relay 6     |             |                   |        |
| Relay State         | Requirement | Ohm Meter Reading | Result | Relay State | Requirement | Ohm Meter Reading | Result |
| On                  | <1Ω         | 0.58              | Pass   | On          | <1Ω         | 0.47              | Pass   |
| OFF                 | >20MΩ       | >20               | Pass   | OFF         | >20MΩ       | >20               | Pass   |
| Relay 7             |             |                   |        | Relay 8     |             |                   |        |
| Relay State         | Requirement | Ohm Meter Reading | Result | Relay State | Requirement | Ohm Meter Reading | Result |
| On                  | <1Ω         | 0.61              | Pass   | On          | <1Ω         | 0.46              | Pass   |
| OFF                 | >20MΩ       | >20               | Pass   | OFF         | >20MΩ       | >20               | Pass   |

| Transmitter ISM Communication Verification |       |                |       |        |                                 |       |                |       |        |
|--------------------------------------------|-------|----------------|-------|--------|---------------------------------|-------|----------------|-------|--------|
| Verification Results: Channel 1            |       |                |       |        | Verification Results: Channel 2 |       |                |       |        |
| Simulated Value                            |       | Actual Reading |       | Result | Simulated Value                 |       | Actual Reading |       | Result |
| 18.180                                     | MΩ-cm | 18.180         | MΩ-cm | Pass   | 18.180                          | MΩ-cm | 18.180         | MΩ-cm | Pass   |
| 1.000                                      | MΩ-cm | 1.000          | MΩ-cm | Pass   | 1.000                           | MΩ-cm | 1.000          | MΩ-cm | Pass   |
| 100.000                                    | kΩ-cm | 100.000        | kΩ-cm | Pass   | 100.000                         | kΩ-cm | 100.000        | kΩ-cm | Pass   |
| 100.000                                    | Ω-cm  | 100.000        | Ω-cm  | Pass   | 100.000                         | Ω-cm  | 100.000        | Ω-cm  | Pass   |

| Customer Equipment |            |                      |            |
|--------------------|------------|----------------------|------------|
| Model              | M800 Water | Tag # / ID           |            |
| Part Number        | 58 000 802 | Calibration Date     | 7-Feb-2022 |
| Serial Number      | B723215146 | Calibration Due Date | 7-Feb-2023 |

**Calibration and Verification Results**

|      |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pass | <input checked="" type="checkbox"/> | Mettler-Toledo Inc., an ISO 9001 company, hereby certifies that the above instrument performs within specification. Calibration procedures comply with ISO 10012:2003 Certification of Calibration standards and have been calibrated using test standards traceable to the National Institute of Standards and Technology (NIST) or other legal national authorities.<br>Calibration is recommended at least annually. |
| Fail | <input type="checkbox"/>            | This instrument does not perform within specification.<br>Please consult your METTLER TOLEDO Representative to discuss available solutions.                                                                                                                                                                                                                                                                             |

**Comments and Recommendations**

Brian Dinnigan  
\_\_\_\_\_  
METTLER TOLEDO Representative

BD  
\_\_\_\_\_  
Signature

7-Feb-2022  
\_\_\_\_\_  
Date