

Totally Integrated Automation Portal

NEURAL\_NETWORK\_WEIGHTS\_BIASES\_NORMALIZATION [DB39]

NEURAL\_NETWORK\_WEIGHTS\_BIASES\_NORMALIZATION Properties

General

|           |   |        |    |      |    |          |    |
|-----------|---|--------|----|------|----|----------|----|
| Name      | NEURAL_NETWORK_WEIGHTS_BIASES_NORMALIZATION | Number | 39 | Type | DB | Language | DB |
| Numbering | Automatic                                   |        |    |      |    |          |    |

Information

|         |     |                 |  |         |  |        |  |
|---------|-----|-----------------|--|---------|--|--------|--|
| Title   |     | Author          |  | Comment |  | Family |  |
| Version | 0.1 | User-defined ID |  |         |  |        |  |

| Name     | Data type | Start value | Retain |
|----------|-----------|-------------|--------|
| ▼ Static |           |             |        |
| W_1_1    | Real      | -1.5254     | False  |
| W_2_1    | Real      | -2.8213     | False  |
| W_3_1    | Real      | -2.0056     | False  |
| W_4_1    | Real      | -0.531      | False  |
| W_5_1    | Real      | 0.0872      | False  |
| W_6_1    | Real      | -2.642      | False  |
| W_7_1    | Real      | 2.2675      | False  |
| W_8_1    | Real      | 1.6801      | False  |
| W_9_1    | Real      | -2.4497     | False  |
| B_1      | Real      | 2.1953      | False  |
| W_1_2    | Real      | 0.1749      | False  |
| W_2_2    | Real      | 1.147       | False  |
| W_3_2    | Real      | 0.011       | False  |
| W_4_2    | Real      | 0.9485      | False  |
| W_5_2    | Real      | -0.7185     | False  |
| W_6_2    | Real      | -0.5225     | False  |
| W_7_2    | Real      | 0.5567      | False  |
| W_8_2    | Real      | -3.0506     | False  |
| W_9_2    | Real      | 0.2267      | False  |
| B_2      | Real      | 0.3133      | False  |
| W_1_3    | Real      | -0.95       | False  |
| W_2_3    | Real      | -1.6201     | False  |
| W_3_3    | Real      | 0.7642      | False  |
| W_4_3    | Real      | -0.7214     | False  |
| W_5_3    | Real      | 0.0942      | False  |
| W_6_3    | Real      | -0.7018     | False  |
| W_7_3    | Real      | 1.4409      | False  |
| W_8_3    | Real      | 0.2737      | False  |
| W_9_3    | Real      | -2.2615     | False  |
| B_3      | Real      | 2.1811      | False  |
| W_1_4    | Real      | -0.4291     | False  |
| W_2_4    | Real      | -0.1496     | False  |
| W_3_4    | Real      | -0.168      | False  |
| W_4_4    | Real      | -1.5874     | False  |
| W_5_4    | Real      | 0.3165      | False  |
| W_6_4    | Real      | 0.6999      | False  |
| W_7_4    | Real      | 0.9615      | False  |
| W_8_4    | Real      | 1.7618      | False  |
| W_9_4    | Real      | -1.9396     | False  |
| B_4      | Real      | -0.6922     | False  |
| W_1_5    | Real      | -0.4147     | False  |
| W_2_5    | Real      | 1.626       | False  |
| W_3_5    | Real      | -0.9535     | False  |
| W_4_5    | Real      | 1.3389      | False  |
| W_5_5    | Real      | 0.4307      | False  |
| W_6_5    | Real      | 0.1598      | False  |
| W_7_5    | Real      | 0.8035      | False  |
| W_8_5    | Real      | -1.2008     | False  |
| W_9_5    | Real      | 1.5433      | False  |
| B_5      | Real      | 5.7215      | False  |
| W_1_6    | Real      | 2.5432      | False  |
| W_2_6    | Real      | 2.2072      | False  |
| W_3_6    | Real      | 0.4781      | False  |
| W_4_6    | Real      | -2.3549     | False  |
| W_5_6    | Real      | -0.0015     | False  |
| W_6_6    | Real      | -0.7786     | False  |
| W_7_6    | Real      | 0.1003      | False  |
| W_8_6    | Real      | -0.336      | False  |
| W_9_6    | Real      | -4.3691     | False  |
| B_6      | Real      | 2.357       | False  |
| W_1_O    | Real      | 2.6014      | False  |
| W_2_O    | Real      | -2.9345     | False  |
| W_3_O    | Real      | 2.8387      | False  |
| W_4_O    | Real      | -2.7334     | False  |
| W_5_O    | Real      | 4.3664      | False  |

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|---|-----------|-------------|--------|--|------|-----------|-------------|--------|-------|------|--------|-------|-----|------|--------|-------|------------|------|---------|-------|---------------|------|--------|-------|----------|------|--------|-------|-------------|------|--------|-------|---------|------|--------|-------|------------|------|--------|-------|--------|------|---------|-------|-----------|------|--------|-------|---------|------|---------|-------|------------|------|--------|-------|------------|------|--------|-------|---------------|------|--------|-------|------------|------|--------|-------|---------------|------|--------|-------|-------|------|-------|-------|----------|------|--------|-------|------------|------|--------|-------|---------------|------|--------|-------|
| <table><tr><th>Name</th><th>Data type</th><th>Start value</th><th>Retain</th></tr><tr><td>W_6_O</td><td>Real</td><td>2.6695</td><td>False</td></tr><tr><td>B_O</td><td>Real</td><td>4.1839</td><td>False</td></tr><tr><td>MU_TankLvl</td><td>Real</td><td>63.6731</td><td>False</td></tr><tr><td>SIGMA_TankLvl</td><td>Real</td><td>13.011</td><td>False</td></tr><tr><td>MU_CISet</td><td>Real</td><td>0.7181</td><td>False</td></tr><tr><td>SIGMA_CISet</td><td>Real</td><td>0.0714</td><td>False</td></tr><tr><td>MU_Pump</td><td>Real</td><td>1.6355</td><td>False</td></tr><tr><td>SIGMA_Pump</td><td>Real</td><td>0.4813</td><td>False</td></tr><tr><td>MU_UV%</td><td>Real</td><td>30.5615</td><td>False</td></tr><tr><td>SIGMA_UV%</td><td>Real</td><td>4.7297</td><td>False</td></tr><tr><td>MU_Flow</td><td>Real</td><td>92.9365</td><td>False</td></tr><tr><td>SIGMA_Flow</td><td>Real</td><td>5.4898</td><td>False</td></tr><tr><td>MU_InfTurb</td><td>Real</td><td>1.6341</td><td>False</td></tr><tr><td>SIGMA_InfTurb</td><td>Real</td><td>1.8581</td><td>False</td></tr><tr><td>MU_EffTurb</td><td>Real</td><td>0.6325</td><td>False</td></tr><tr><td>SIGMA_EffTurb</td><td>Real</td><td>0.4388</td><td>False</td></tr><tr><td>MU_pH</td><td>Real</td><td>8.638</td><td>False</td></tr><tr><td>SIGMA_pH</td><td>Real</td><td>0.4105</td><td>False</td></tr><tr><td>MU_CoagPPM</td><td>Real</td><td>2.0431</td><td>False</td></tr><tr><td>SIGMA_CoagPPM</td><td>Real</td><td>5.9868</td><td>False</td></tr></table> |           |             |        |  | Name | Data type | Start value | Retain | W_6_O | Real | 2.6695 | False | B_O | Real | 4.1839 | False | MU_TankLvl | Real | 63.6731 | False | SIGMA_TankLvl | Real | 13.011 | False | MU_CISet | Real | 0.7181 | False | SIGMA_CISet | Real | 0.0714 | False | MU_Pump | Real | 1.6355 | False | SIGMA_Pump | Real | 0.4813 | False | MU_UV% | Real | 30.5615 | False | SIGMA_UV% | Real | 4.7297 | False | MU_Flow | Real | 92.9365 | False | SIGMA_Flow | Real | 5.4898 | False | MU_InfTurb | Real | 1.6341 | False | SIGMA_InfTurb | Real | 1.8581 | False | MU_EffTurb | Real | 0.6325 | False | SIGMA_EffTurb | Real | 0.4388 | False | MU_pH | Real | 8.638 | False | SIGMA_pH | Real | 0.4105 | False | MU_CoagPPM | Real | 2.0431 | False | SIGMA_CoagPPM | Real | 5.9868 | False |
| Name  | Data type | Start value | Retain |  |      |           |             |        |       |      |        |       |     |      |        |       |            |      |         |       |               |      |        |       |          |      |        |       |             |      |        |       |         |      |        |       |            |      |        |       |        |      |         |       |           |      |        |       |         |      |         |       |            |      |        |       |            |      |        |       |               |      |        |       |            |      |        |       |               |      |        |       |       |      |       |       |          |      |        |       |            |      |        |       |               |      |        |       |
| W_6_O   | Real      | 2.6695      | False  |  |      |           |             |        |       |      |        |       |     |      |        |       |            |      |         |       |               |      |        |       |          |      |        |       |             |      |        |       |         |      |        |       |            |      |        |       |        |      |         |       |           |      |        |       |         |      |         |       |            |      |        |       |            |      |        |       |               |      |        |       |            |      |        |       |               |      |        |       |       |      |       |       |          |      |        |       |            |      |        |       |               |      |        |       |
| B_O   | Real      | 4.1839      | False  |  |      |           |             |        |       |      |        |       |     |      |        |       |            |      |         |       |               |      |        |       |          |      |        |       |             |      |        |       |         |      |        |       |            |      |        |       |        |      |         |       |           |      |        |       |         |      |         |       |            |      |        |       |            |      |        |       |               |      |        |       |            |      |        |       |               |      |        |       |       |      |       |       |          |      |        |       |            |      |        |       |               |      |        |       |
| MU_TankLvl  | Real      | 63.6731     | False  |  |      |           |             |        |       |      |        |       |     |      |        |       |            |      |         |       |               |      |        |       |          |      |        |       |             |      |        |       |         |      |        |       |            |      |        |       |        |      |         |       |           |      |        |       |         |      |         |       |            |      |        |       |            |      |        |       |               |      |        |       |            |      |        |       |               |      |        |       |       |      |       |       |          |      |        |       |            |      |        |       |               |      |        |       |
| SIGMA_TankLvl   | Real      | 13.011      | False  |  |      |           |             |        |       |      |        |       |     |      |        |       |            |      |         |       |               |      |        |       |          |      |        |       |             |      |        |       |         |      |        |       |            |      |        |       |        |      |         |       |           |      |        |       |         |      |         |       |            |      |        |       |            |      |        |       |               |      |        |       |            |      |        |       |               |      |        |       |       |      |       |       |          |      |        |       |            |      |        |       |               |      |        |       |
| MU_CISet  | Real      | 0.7181      | False  |  |      |           |             |        |       |      |        |       |     |      |        |       |            |      |         |       |               |      |        |       |          |      |        |       |             |      |        |       |         |      |        |       |            |      |        |       |        |      |         |       |           |      |        |       |         |      |         |       |            |      |        |       |            |      |        |       |               |      |        |       |            |      |        |       |               |      |        |       |       |      |       |       |          |      |        |       |            |      |        |       |               |      |        |       |
| SIGMA_CISet   | Real      | 0.0714      | False  |  |      |           |             |        |       |      |        |       |     |      |        |       |            |      |         |       |               |      |        |       |          |      |        |       |             |      |        |       |         |      |        |       |            |      |        |       |        |      |         |       |           |      |        |       |         |      |         |       |            |      |        |       |            |      |        |       |               |      |        |       |            |      |        |       |               |      |        |       |       |      |       |       |          |      |        |       |            |      |        |       |               |      |        |       |
| MU_Pump   | Real      | 1.6355      | False  |  |      |           |             |        |       |      |        |       |     |      |        |       |            |      |         |       |               |      |        |       |          |      |        |       |             |      |        |       |         |      |        |       |            |      |        |       |        |      |         |       |           |      |        |       |         |      |         |       |            |      |        |       |            |      |        |       |               |      |        |       |            |      |        |       |               |      |        |       |       |      |       |       |          |      |        |       |            |      |        |       |               |      |        |       |
| SIGMA_Pump  | Real      | 0.4813      | False  |  |      |           |             |        |       |      |        |       |     |      |        |       |            |      |         |       |               |      |        |       |          |      |        |       |             |      |        |       |         |      |        |       |            |      |        |       |        |      |         |       |           |      |        |       |         |      |         |       |            |      |        |       |            |      |        |       |               |      |        |       |            |      |        |       |               |      |        |       |       |      |       |       |          |      |        |       |            |      |        |       |               |      |        |       |
| MU_UV%  | Real      | 30.5615     | False  |  |      |           |             |        |       |      |        |       |     |      |        |       |            |      |         |       |               |      |        |       |          |      |        |       |             |      |        |       |         |      |        |       |            |      |        |       |        |      |         |       |           |      |        |       |         |      |         |       |            |      |        |       |            |      |        |       |               |      |        |       |            |      |        |       |               |      |        |       |       |      |       |       |          |      |        |       |            |      |        |       |               |      |        |       |
| SIGMA_UV%   | Real      | 4.7297      | False  |  |      |           |             |        |       |      |        |       |     |      |        |       |            |      |         |       |               |      |        |       |          |      |        |       |             |      |        |       |         |      |        |       |            |      |        |       |        |      |         |       |           |      |        |       |         |      |         |       |            |      |        |       |            |      |        |       |               |      |        |       |            |      |        |       |               |      |        |       |       |      |       |       |          |      |        |       |            |      |        |       |               |      |        |       |
| MU_Flow   | Real      | 92.9365     | False  |  |      |           |             |        |       |      |        |       |     |      |        |       |            |      |         |       |               |      |        |       |          |      |        |       |             |      |        |       |         |      |        |       |            |      |        |       |        |      |         |       |           |      |        |       |         |      |         |       |            |      |        |       |            |      |        |       |               |      |        |       |            |      |        |       |               |      |        |       |       |      |       |       |          |      |        |       |            |      |        |       |               |      |        |       |
| SIGMA_Flow  | Real      | 5.4898      | False  |  |      |           |             |        |       |      |        |       |     |      |        |       |            |      |         |       |               |      |        |       |          |      |        |       |             |      |        |       |         |      |        |       |            |      |        |       |        |      |         |       |           |      |        |       |         |      |         |       |            |      |        |       |            |      |        |       |               |      |        |       |            |      |        |       |               |      |        |       |       |      |       |       |          |      |        |       |            |      |        |       |               |      |        |       |
| MU_InfTurb  | Real      | 1.6341      | False  |  |      |           |             |        |       |      |        |       |     |      |        |       |            |      |         |       |               |      |        |       |          |      |        |       |             |      |        |       |         |      |        |       |            |      |        |       |        |      |         |       |           |      |        |       |         |      |         |       |            |      |        |       |            |      |        |       |               |      |        |       |            |      |        |       |               |      |        |       |       |      |       |       |          |      |        |       |            |      |        |       |               |      |        |       |
| SIGMA_InfTurb   | Real      | 1.8581      | False  |  |      |           |             |        |       |      |        |       |     |      |        |       |            |      |         |       |               |      |        |       |          |      |        |       |             |      |        |       |         |      |        |       |            |      |        |       |        |      |         |       |           |      |        |       |         |      |         |       |            |      |        |       |            |      |        |       |               |      |        |       |            |      |        |       |               |      |        |       |       |      |       |       |          |      |        |       |            |      |        |       |               |      |        |       |
| MU_EffTurb  | Real      | 0.6325      | False  |  |      |           |             |        |       |      |        |       |     |      |        |       |            |      |         |       |               |      |        |       |          |      |        |       |             |      |        |       |         |      |        |       |            |      |        |       |        |      |         |       |           |      |        |       |         |      |         |       |            |      |        |       |            |      |        |       |               |      |        |       |            |      |        |       |               |      |        |       |       |      |       |       |          |      |        |       |            |      |        |       |               |      |        |       |
| SIGMA_EffTurb   | Real      | 0.4388      | False  |  |      |           |             |        |       |      |        |       |     |      |        |       |            |      |         |       |               |      |        |       |          |      |        |       |             |      |        |       |         |      |        |       |            |      |        |       |        |      |         |       |           |      |        |       |         |      |         |       |            |      |        |       |            |      |        |       |               |      |        |       |            |      |        |       |               |      |        |       |       |      |       |       |          |      |        |       |            |      |        |       |               |      |        |       |
| MU_pH   | Real      | 8.638       | False  |  |      |           |             |        |       |      |        |       |     |      |        |       |            |      |         |       |               |      |        |       |          |      |        |       |             |      |        |       |         |      |        |       |            |      |        |       |        |      |         |       |           |      |        |       |         |      |         |       |            |      |        |       |            |      |        |       |               |      |        |       |            |      |        |       |               |      |        |       |       |      |       |       |          |      |        |       |            |      |        |       |               |      |        |       |
| SIGMA_pH  | Real      | 0.4105      | False  |  |      |           |             |        |       |      |        |       |     |      |        |       |            |      |         |       |               |      |        |       |          |      |        |       |             |      |        |       |         |      |        |       |            |      |        |       |        |      |         |       |           |      |        |       |         |      |         |       |            |      |        |       |            |      |        |       |               |      |        |       |            |      |        |       |               |      |        |       |       |      |       |       |          |      |        |       |            |      |        |       |               |      |        |       |
| MU_CoagPPM  | Real      | 2.0431      | False  |  |      |           |             |        |       |      |        |       |     |      |        |       |            |      |         |       |               |      |        |       |          |      |        |       |             |      |        |       |         |      |        |       |            |      |        |       |        |      |         |       |           |      |        |       |         |      |         |       |            |      |        |       |            |      |        |       |               |      |        |       |            |      |        |       |               |      |        |       |       |      |       |       |          |      |        |       |            |      |        |       |               |      |        |       |
| SIGMA_CoagPPM   | Real      | 5.9868      | False  |  |      |           |             |        |       |      |        |       |     |      |        |       |            |      |         |       |               |      |        |       |          |      |        |       |             |      |        |       |         |      |        |       |            |      |        |       |        |      |         |       |           |      |        |       |         |      |         |       |            |      |        |       |            |      |        |       |               |      |        |       |            |      |        |       |               |      |        |       |       |      |       |       |          |      |        |       |            |      |        |       |               |      |        |       |
|   |           |             |        |  |      |           |             |        |       |      |        |       |     |      |        |       |            |      |         |       |               |      |        |       |          |      |        |       |             |      |        |       |         |      |        |       |            |      |        |       |        |      |         |       |           |      |        |       |         |      |         |       |            |      |        |       |            |      |        |       |               |      |        |       |            |      |        |       |               |      |        |       |       |      |       |       |          |      |        |       |            |      |        |       |               |      |        |       |