

## CURTIS DC Permanent Magnet Motor Speed Controller Parameter List

**Model: 1229-3101**

| Menu                       | Value | Min | Max | Unit    | Read Access | Write Access |
|----------------------------|-------|-----|-----|---------|-------------|--------------|
| <b>Speed Mode</b>          |       |     |     |         |             |              |
| <b>Mode 1</b>              |       |     |     |         |             |              |
| Max Speed                  | 50    | 0   | 100 | %       | OEM         | OEM          |
| Min Speed                  | 5     | 0   | 100 | %       | OEM         | OEM          |
| Rev Max Speed              | 25    | 0   | 100 | %       | OEM         | OEM          |
| Rev Min Speed              | 3     | 0   | 100 | %       | OEM         | OEM          |
| Accel High Speed           | 4     | 0.1 | 30  | Seconds | OEM         | OEM          |
| Accel Low Speed            | 8     | 0.1 | 30  | Seconds | OEM         | OEM          |
| Decel High Speed           | 2     | 0.1 | 30  | Seconds | OEM         | OEM          |
| Decel Low Speed            | 4     | 0.1 | 30  | Seconds | OEM         | OEM          |
| Rev Accel High Speed       | 8     | 0.1 | 30  | Seconds | OEM         | OEM          |
| Rev Accel Low Speed        | 12    | 0.1 | 30  | Seconds | OEM         | OEM          |
| Rev Decel High Speed       | 2     | 0.1 | 30  | Seconds | OEM         | OEM          |
| Rev Decel Low Speed        | 4     | 0.1 | 30  | Seconds | OEM         | OEM          |
| Brake Decel High Speed     | 2     | 0.1 | 30  | Seconds | OEM         | OEM          |
| Brake Decel Low Speed      | 5     | 0.1 | 30  | Seconds | OEM         | OEM          |
| <b>Mode 2</b>              |       |     |     |         |             |              |
| Max Speed                  | 100   | 0   | 100 | %       | OEM         | OEM          |
| Min Speed                  | 10    | 0   | 100 | %       | OEM         | OEM          |
| Rev Max Speed              | 50    | 0   | 100 | %       | OEM         | OEM          |
| Rev Min Speed              | 5     | 0   | 100 | %       | OEM         | OEM          |
| Accel High Speed           | 2     | 0.1 | 30  | Seconds | OEM         | OEM          |
| Accel Low Speed            | 4     | 0.1 | 30  | Seconds | OEM         | OEM          |
| Decel High Speed           | 3     | 0.1 | 30  | Seconds | OEM         | OEM          |
| Decel Low Speed            | 3     | 0.1 | 30  | Seconds | OEM         | OEM          |
| Rev Accel High Speed       | 3     | 0.1 | 30  | Seconds | OEM         | OEM          |
| Rev Accel Low Speed        | 6     | 0.1 | 30  | Seconds | OEM         | OEM          |
| Rev Decel High Speed       | 3     | 0.1 | 30  | Seconds | OEM         | OEM          |
| Rev Decel Low Speed        | 3     | 0.1 | 30  | Seconds | OEM         | OEM          |
| Brake Decel High Speed     | 2     | 0.1 | 30  | Seconds | OEM         | OEM          |
| Brake Decel Low Speed      | 5     | 0.1 | 30  | Seconds | OEM         | OEM          |
| Interlock Decel High Speed | 2     | 0.1 | 30  | Seconds | OEM         | OEM          |
| Interlock Decel Low Speed  | 5     | 0.1 | 30  | Seconds | OEM         | OEM          |
| Quick Stop Decel           | 2     | 0.1 | 30  | Seconds | OEM         | OEM          |
| Quick Stop Pause           | 0.5   | 0   | 1   | Seconds | OEM         | OEM          |
| E Stop Decel               | 2     | 0.1 | 30  | Seconds | OEM         | OEM          |
| Soft Start                 | 25    | 0   | 100 | %       | OEM         | OEM          |
| Soft Stop Decel            | 1     | 0.1 | 30  | Seconds | OEM         | OEM          |
| <b>Fine Tuning</b>         |       |     |     |         |             |              |
| High Speed                 | 60    | 0   | 100 | %       | OEM         | OEM          |
| Low Speed                  | 20    | 0   | 100 | %       | OEM         | OEM          |
| Soft Stop Speed            | 5     | 0   | 100 | %       | OEM         | OEM          |
| <b>IO Map</b>              |       |     |     |         |             |              |
| <b>Switches</b>            |       |     |     |         |             |              |
| <b>1-Switch 1</b>          |       |     |     |         |             |              |
| On Delay                   | 0     | 0   | 30  | Seconds | OEM         | OEM          |

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| Off Delay          | 0     | 0   | 30  | Seconds | OEM         | OEM          |
| Normally Closed    | Off   | Off | On  |         | OEM         | OEM          |
| <b>2-Switch 2</b>  |       |     |     |         |             |              |
| On Delay           | 0     | 0   | 30  | Seconds | OEM         | OEM          |
| Off Delay          | 0     | 0   | 30  | Seconds | OEM         | OEM          |
| Normally Closed    | Off   | Off | On  |         | OEM         | OEM          |
| <b>3-Switch 3</b>  |       |     |     |         |             |              |
| On Delay           | 0     | 0   | 30  | Seconds | OEM         | OEM          |
| Off Delay          | 0     | 0   | 30  | Seconds | OEM         | OEM          |
| Normally Closed    | Off   | Off | On  |         | OEM         | OEM          |
| <b>4-Switch 4</b>  |       |     |     |         |             |              |
| On Delay           | 0     | 0   | 30  | Seconds | OEM         | OEM          |
| Off Delay          | 0     | 0   | 30  | Seconds | OEM         | OEM          |
| Normally Closed    | Off   | Off | On  |         | OEM         | OEM          |
| <b>5-Switch 5</b>  |       |     |     |         |             |              |
| On Delay           | 0     | 0   | 30  | Seconds | OEM         | OEM          |
| Off Delay          | 0     | 0   | 30  | Seconds | OEM         | OEM          |
| Normally Closed    | Off   | Off | On  |         | OEM         | OEM          |
| <b>Toggle</b>      |       |     |     |         |             |              |
| <b>6-Toggle 1</b>  |       |     |     |         |             |              |
| Input              | 0     | 0   | 120 |         | OEM         | OEM          |
| Enable Input       | 0     | 0   | 120 |         | OEM         | OEM          |
| <b>7-Toggle 2</b>  |       |     |     |         |             |              |
| Input              | 0     | 0   | 120 |         | OEM         | OEM          |
| Enable Input       | 0     | 0   | 120 |         | OEM         | OEM          |
| <b>8-Toggle 3</b>  |       |     |     |         |             |              |
| Input              | 0     | 0   | 120 |         | OEM         | OEM          |
| Enable Input       | 0     | 0   | 120 |         | OEM         | OEM          |
| <b>9-Toggle 4</b>  |       |     |     |         |             |              |
| Input              | 0     | 0   | 120 |         | OEM         | OEM          |
| Enable Input       | 0     | 0   | 120 |         | OEM         | OEM          |
| <b>10-Toggle 5</b> |       |     |     |         |             |              |
| Input              | 0     | 0   | 120 |         | OEM         | OEM          |
| Enable Input       | 0     | 0   | 120 |         | OEM         | OEM          |
| <b>Pots</b>        |       |     |     |         |             |              |
| <b>11-Pot 1</b>    |       |     |     |         |             |              |
| Max                | 4.5   | 0   | 5   | Volt    | OEM         | OEM          |
| Min                | 0.5   | 0   | 5   | Volt    | OEM         | OEM          |
| Fault High         | 5.5   | 0   | 5.5 | Volt    | OEM         | OEM          |
| Fault Low          | 0     | 0   | 5.5 | Volt    | OEM         | OEM          |
| Fault Action       | 0     | 0   | 3   |         | OEM         | OEM          |
| <b>12-Pot 2</b>    |       |     |     |         |             |              |
| Max                | 4.5   | 0   | 5   | Volt    | OEM         | OEM          |
| Min                | 0.5   | 0   | 5   | Volt    | OEM         | OEM          |
| Fault High         | 5.5   | 0   | 5.5 | Volt    | OEM         | OEM          |
| Fault Low          | 0     | 0   | 5.5 | Volt    | OEM         | OEM          |

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| Fault Action          | 0     | 0   | 3   |         | OEM         | OEM          |
| <b>13-Pot 3</b>       |       |     |     |         |             |              |
| Max                   | 4.5   | 0   | 5   | Volt    | OEM         | OEM          |
| Min                   | 0.5   | 0   | 5   | Volt    | OEM         | OEM          |
| Fault High            | 5.5   | 0   | 5.5 | Volt    | OEM         | OEM          |
| Fault Low             | 0     | 0   | 5.5 | Volt    | OEM         | OEM          |
| Fault Action          | 0     | 0   | 3   |         | OEM         | OEM          |
| <b>Thresholds</b>     |       |     |     |         |             |              |
| <b>14-Threshold 1</b> |       |     |     |         |             |              |
| Input                 | 0     | 0   | 120 |         | OEM         | OEM          |
| On Threshold          | 50    | 0   | 100 | %       | OEM         | OEM          |
| Off Threshold         | 25    | 0   | 100 | %       | OEM         | OEM          |
| <b>15-Threshold 2</b> |       |     |     |         |             |              |
| Input                 | 0     | 0   | 120 |         | OEM         | OEM          |
| On Threshold          | 50    | 0   | 100 | %       | OEM         | OEM          |
| Off Threshold         | 25    | 0   | 100 | %       | OEM         | OEM          |
| <b>16-Threshold 3</b> |       |     |     |         |             |              |
| Input                 | 0     | 0   | 120 |         | OEM         | OEM          |
| On Threshold          | 50    | 0   | 100 | %       | OEM         | OEM          |
| Off Threshold         | 25    | 0   | 100 | %       | OEM         | OEM          |
| <b>17-Threshold 4</b> |       |     |     |         |             |              |
| Input                 | 0     | 0   | 120 |         | OEM         | OEM          |
| On Threshold          | 50    | 0   | 100 | %       | OEM         | OEM          |
| Off Threshold         | 25    | 0   | 100 | %       | OEM         | OEM          |
| <b>Debounce</b>       |       |     |     |         |             |              |
| <b>18-Debounce 1</b>  |       |     |     |         |             |              |
| Input                 | 0     | 0   | 120 |         | OEM         | OEM          |
| On Delay              | 0.5   | 0   | 30  | Seconds | OEM         | OEM          |
| Off Delay             | 0.5   | 0   | 30  | Seconds | OEM         | OEM          |
| <b>19-Debounce 2</b>  |       |     |     |         |             |              |
| Input                 | 0     | 0   | 120 |         | OEM         | OEM          |
| On Delay              | 0.5   | 0   | 30  | Seconds | OEM         | OEM          |
| Off Delay             | 0.5   | 0   | 30  | Seconds | OEM         | OEM          |
| <b>20-Debounce 3</b>  |       |     |     |         |             |              |
| Input                 | 0     | 0   | 120 |         | OEM         | OEM          |
| On Delay              | 0.5   | 0   | 30  | Seconds | OEM         | OEM          |
| Off Delay             | 0.5   | 0   | 30  | Seconds | OEM         | OEM          |
| <b>21-Debounce 4</b>  |       |     |     |         |             |              |
| Input                 | 0     | 0   | 120 |         | OEM         | OEM          |
| On Delay              | 0.5   | 0   | 30  | Seconds | OEM         | OEM          |
| Off Delay             | 0.5   | 0   | 30  | Seconds | OEM         | OEM          |
| <b>Timers</b>         |       |     |     |         |             |              |
| <b>22-Timer 1</b>     |       |     |     |         |             |              |
| Time                  | 5     | 0   | 240 | Seconds | OEM         | OEM          |
| Trigger Input         | 0     | 0   | 120 |         | OEM         | OEM          |
| Enable Input          | 0     | 0   | 120 |         | OEM         | OEM          |

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| <b>23-Timer 2</b>      |       |     |     |         |             |              |
| Time                   | 5     | 0   | 240 | Seconds | OEM         | OEM          |
| Trigger Input          | 0     | 0   | 120 |         | OEM         | OEM          |
| Enable Input           | 0     | 0   | 120 |         | OEM         | OEM          |
| <b>24-Timer 3</b>      |       |     |     |         |             |              |
| Time                   | 5     | 0   | 240 | Seconds | OEM         | OEM          |
| Trigger Input          | 0     | 0   | 120 |         | OEM         | OEM          |
| Enable Input           | 0     | 0   | 120 |         | OEM         | OEM          |
| <b>25-Timer 4</b>      |       |     |     |         |             |              |
| Time                   | 5     | 0   | 240 | Seconds | OEM         | OEM          |
| Trigger Input          | 0     | 0   | 120 |         | OEM         | OEM          |
| Enable Input           | 0     | 0   | 120 |         | OEM         | OEM          |
| <b>Bit masks</b>       |       |     |     |         |             |              |
| <b>26-Bit Mask 1</b>   |       |     |     |         |             |              |
| Input                  | 0     | 0   | 120 |         | OEM         | OEM          |
| Bit                    | 0     | 0   | 15  |         | OEM         | OEM          |
| <b>27-Bit Mask 2</b>   |       |     |     |         |             |              |
| Input                  | 0     | 0   | 120 |         | OEM         | OEM          |
| Bit                    | 0     | 0   | 15  |         | OEM         | OEM          |
| <b>28-Bit Mask 3</b>   |       |     |     |         |             |              |
| Input                  | 0     | 0   | 120 |         | OEM         | OEM          |
| Bit                    | 0     | 0   | 15  |         | OEM         | OEM          |
| <b>29-Bit Mask 4</b>   |       |     |     |         |             |              |
| Input                  | 0     | 0   | 120 |         | OEM         | OEM          |
| Bit                    | 0     | 0   | 15  |         | OEM         | OEM          |
| <b>30-Bit Mask 5</b>   |       |     |     |         |             |              |
| Input                  | 0     | 0   | 120 |         | OEM         | OEM          |
| Bit                    | 0     | 0   | 15  |         | OEM         | OEM          |
| <b>31-Bit Mask 6</b>   |       |     |     |         |             |              |
| Input                  | 0     | 0   | 120 |         | OEM         | OEM          |
| Bit                    | 0     | 0   | 15  |         | OEM         | OEM          |
| <b>32-Bit Mask 7</b>   |       |     |     |         |             |              |
| Input                  | 0     | 0   | 120 |         | OEM         | OEM          |
| Bit                    | 0     | 0   | 15  |         | OEM         | OEM          |
| <b>33-Bit Mask 8</b>   |       |     |     |         |             |              |
| Input                  | 0     | 0   | 120 |         | OEM         | OEM          |
| Bit                    | 0     | 0   | 15  |         | OEM         | OEM          |
| <b>Wig Wag</b>         |       |     |     |         |             |              |
| <b>34/35-Wig Wag 1</b> |       |     |     |         |             |              |
| Input                  | 0     | 0   | 120 |         | OEM         | OEM          |
| Forward Min            | 55    | 0   | 100 | %       | OEM         | OEM          |
| Forward Max            | 95    | 0   | 100 | %       | OEM         | OEM          |
| Reverse Min            | 45    | 0   | 100 | %       | OEM         | OEM          |
| Reverse Max            | 5     | 0   | 100 | %       | OEM         | OEM          |
| <b>36/37-Wig Wag 2</b> |       |     |     |         |             |              |
| Input                  | 0     | 0   | 120 |         | OEM         | OEM          |

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| Forward Min             | 55    | 0   | 100   | %    | OEM         | OEM          |
| Forward Max             | 95    | 0   | 100   | %    | OEM         | OEM          |
| Reverse Min             | 45    | 0   | 100   | %    | OEM         | OEM          |
| Reverse Max             | 5     | 0   | 100   | %    | OEM         | OEM          |
| <b>38/39-Wig Wag 3</b>  |       |     |       |      |             |              |
| Input                   | 0     | 0   | 120   |      | OEM         | OEM          |
| Forward Min             | 55    | 0   | 100   | %    | OEM         | OEM          |
| Forward Max             | 95    | 0   | 100   | %    | OEM         | OEM          |
| Reverse Min             | 45    | 0   | 100   | %    | OEM         | OEM          |
| Reverse Max             | 5     | 0   | 100   | %    | OEM         | OEM          |
| <b>Speed Sensor</b>     |       |     |       |      |             |              |
| <b>40-Vehicle Speed</b> |       |     |       |      |             |              |
| Encoder Enable          | Off   | Off | On    |      | OEM         | OEM          |
| Limit Max Speed         | Off   | Off | On    |      | OEM         | OEM          |
| Pulses/Rev              | 64    | 1   | 1024  |      | OEM         | OEM          |
| Max Speed               | 6000  | 100 | 20000 | rpm  | OEM         | OEM          |
| <b>Logic Gates</b>      |       |     |       |      |             |              |
| <b>41-Logic Gate 1</b>  |       |     |       |      |             |              |
| and/or/xor              | 3     | 1   | 3     |      | OEM         | OEM          |
| Input 1                 | 0     | 0   | 120   |      | OEM         | OEM          |
| Input 2                 | 0     | 0   | 120   |      | OEM         | OEM          |
| Input 1-                | On    | Off | On    |      | OEM         | OEM          |
| Input 2-                | On    | Off | On    |      | OEM         | OEM          |
| Output-                 | On    | Off | On    |      | OEM         | OEM          |
| <b>42-Logic Gate 2</b>  |       |     |       |      |             |              |
| and/or/xor              | 3     | 1   | 3     |      | OEM         | OEM          |
| Input 1                 | 0     | 0   | 120   |      | OEM         | OEM          |
| Input 2                 | 0     | 0   | 120   |      | OEM         | OEM          |
| Input 1-                | On    | Off | On    |      | OEM         | OEM          |
| Input 2-                | On    | Off | On    |      | OEM         | OEM          |
| Output-                 | On    | Off | On    |      | OEM         | OEM          |
| <b>43-Logic Gate 3</b>  |       |     |       |      |             |              |
| and/or/xor              | 3     | 1   | 3     |      | OEM         | OEM          |
| Input 1                 | 0     | 0   | 120   |      | OEM         | OEM          |
| Input 2                 | 0     | 0   | 120   |      | OEM         | OEM          |
| Input 1-                | On    | Off | On    |      | OEM         | OEM          |
| Input 2-                | On    | Off | On    |      | OEM         | OEM          |
| Output-                 | On    | Off | On    |      | OEM         | OEM          |
| <b>44-Logic Gate 4</b>  |       |     |       |      |             |              |
| and/or/xor              | 3     | 1   | 3     |      | OEM         | OEM          |
| Input 1                 | 0     | 0   | 120   |      | OEM         | OEM          |
| Input 2                 | 0     | 0   | 120   |      | OEM         | OEM          |
| Input 1-                | On    | Off | On    |      | OEM         | OEM          |
| Input 2-                | On    | Off | On    |      | OEM         | OEM          |
| Output-                 | On    | Off | On    |      | OEM         | OEM          |
| <b>45-Logic Gate 5</b>  |       |     |       |      |             |              |

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| and/or/xor              | 3     | 1   | 3   |      | OEM         | OEM          |
| Input 1                 | 0     | 0   | 120 |      | OEM         | OEM          |
| Input 2                 | 0     | 0   | 120 |      | OEM         | OEM          |
| Input 1-                | On    | Off | On  |      | OEM         | OEM          |
| Input 2-                | On    | Off | On  |      | OEM         | OEM          |
| Output-                 | On    | Off | On  |      | OEM         | OEM          |
| <b>46-Logic Gate 6</b>  |       |     |     |      |             |              |
| and/or/xor              | 3     | 1   | 3   |      | OEM         | OEM          |
| Input 1                 | 0     | 0   | 120 |      | OEM         | OEM          |
| Input 2                 | 0     | 0   | 120 |      | OEM         | OEM          |
| Input 1-                | On    | Off | On  |      | OEM         | OEM          |
| Input 2-                | On    | Off | On  |      | OEM         | OEM          |
| Output-                 | On    | Off | On  |      | OEM         | OEM          |
| <b>47-Logic Gate 7</b>  |       |     |     |      |             |              |
| and/or/xor              | 3     | 1   | 3   |      | OEM         | OEM          |
| Input 1                 | 0     | 0   | 120 |      | OEM         | OEM          |
| Input 2                 | 0     | 0   | 120 |      | OEM         | OEM          |
| Input 1-                | On    | Off | On  |      | OEM         | OEM          |
| Input 2-                | On    | Off | On  |      | OEM         | OEM          |
| Output-                 | On    | Off | On  |      | OEM         | OEM          |
| <b>48-Logic Gate 8</b>  |       |     |     |      |             |              |
| and/or/xor              | 3     | 1   | 3   |      | OEM         | OEM          |
| Input 1                 | 0     | 0   | 120 |      | OEM         | OEM          |
| Input 2                 | 0     | 0   | 120 |      | OEM         | OEM          |
| Input 1-                | On    | Off | On  |      | OEM         | OEM          |
| Input 2-                | On    | Off | On  |      | OEM         | OEM          |
| Output-                 | On    | Off | On  |      | OEM         | OEM          |
| <b>49-Logic Gate 9</b>  |       |     |     |      |             |              |
| and/or/xor              | 3     | 1   | 3   |      | OEM         | OEM          |
| Input 1                 | 0     | 0   | 120 |      | OEM         | OEM          |
| Input 2                 | 0     | 0   | 120 |      | OEM         | OEM          |
| Input 1-                | On    | Off | On  |      | OEM         | OEM          |
| Input 2-                | On    | Off | On  |      | OEM         | OEM          |
| Output-                 | On    | Off | On  |      | OEM         | OEM          |
| <b>50-Logic Gate 10</b> |       |     |     |      |             |              |
| and/or/xor              | 3     | 1   | 3   |      | OEM         | OEM          |
| Input 1                 | 0     | 0   | 120 |      | OEM         | OEM          |
| Input 2                 | 0     | 0   | 120 |      | OEM         | OEM          |
| Input 1-                | On    | Off | On  |      | OEM         | OEM          |
| Input 2-                | On    | Off | On  |      | OEM         | OEM          |
| Output-                 | On    | Off | On  |      | OEM         | OEM          |
| <b>Filters</b>          |       |     |     |      |             |              |
| <b>51-Low-Pass 1</b>    |       |     |     |      |             |              |
| Input                   | 0     | 0   | 120 |      | OEM         | OEM          |
| Frequency               | 2     | 2   | 125 | Hz   | OEM         | OEM          |
| <b>52-Low-Pass 2</b>    |       |     |     |      |             |              |

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| Input                | 0     | 0   | 120 |      | OEM         | OEM          |
| Frequency            | 2     | 2   | 125 | Hz   | OEM         | OEM          |
| <b>53-Low-Pass 3</b> |       |     |     |      |             |              |
| Input                | 0     | 0   | 120 |      | OEM         | OEM          |
| Frequency            | 2     | 2   | 125 | Hz   | OEM         | OEM          |
| <b>Maps</b>          |       |     |     |      |             |              |
| <b>54-Map 1</b>      |       |     |     |      |             |              |
| Input                | 0     | 0   | 120 |      | OEM         | OEM          |
| X1                   | 0     | 0   | 100 | %    | OEM         | OEM          |
| Y1                   | 0     | 0   | 100 | %    | OEM         | OEM          |
| X2                   | 25    | 0   | 100 | %    | OEM         | OEM          |
| Y2                   | 25    | 0   | 100 | %    | OEM         | OEM          |
| X3                   | 50    | 0   | 100 | %    | OEM         | OEM          |
| Y3                   | 50    | 0   | 100 | %    | OEM         | OEM          |
| X4                   | 75    | 0   | 100 | %    | OEM         | OEM          |
| Y4                   | 75    | 0   | 100 | %    | OEM         | OEM          |
| X5                   | 100   | 0   | 100 | %    | OEM         | OEM          |
| Y5                   | 100   | 0   | 100 | %    | OEM         | OEM          |
| <b>55-Map 2</b>      |       |     |     |      |             |              |
| Input                | 0     | 0   | 120 |      | OEM         | OEM          |
| X1                   | 0     | 0   | 100 | %    | OEM         | OEM          |
| Y1                   | 0     | 0   | 100 | %    | OEM         | OEM          |
| X2                   | 25    | 0   | 100 | %    | OEM         | OEM          |
| Y2                   | 25    | 0   | 100 | %    | OEM         | OEM          |
| X3                   | 50    | 0   | 100 | %    | OEM         | OEM          |
| Y3                   | 50    | 0   | 100 | %    | OEM         | OEM          |
| X4                   | 75    | 0   | 100 | %    | OEM         | OEM          |
| Y4                   | 75    | 0   | 100 | %    | OEM         | OEM          |
| X5                   | 100   | 0   | 100 | %    | OEM         | OEM          |
| Y5                   | 100   | 0   | 100 | %    | OEM         | OEM          |
| <b>56-Map 3</b>      |       |     |     |      |             |              |
| Input                | 0     | 0   | 120 |      | OEM         | OEM          |
| X1                   | 0     | 0   | 100 | %    | OEM         | OEM          |
| Y1                   | 0     | 0   | 100 | %    | OEM         | OEM          |
| X2                   | 25    | 0   | 100 | %    | OEM         | OEM          |
| Y2                   | 25    | 0   | 100 | %    | OEM         | OEM          |
| X3                   | 50    | 0   | 100 | %    | OEM         | OEM          |
| Y3                   | 50    | 0   | 100 | %    | OEM         | OEM          |
| X4                   | 75    | 0   | 100 | %    | OEM         | OEM          |
| Y4                   | 75    | 0   | 100 | %    | OEM         | OEM          |
| X5                   | 100   | 0   | 100 | %    | OEM         | OEM          |
| Y5                   | 100   | 0   | 100 | %    | OEM         | OEM          |
| <b>PWM</b>           |       |     |     |      |             |              |
| <b>57-PWM 1</b>      |       |     |     |      |             |              |
| Input                | 0     | 0   | 120 |      | OEM         | OEM          |
| Pull-in              | 100   | 0   | 100 | %    | OEM         | OEM          |

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## CURTIS DC Permanent Magnet Motor Speed Controller Parameter List

**Model: 1229-3101**

| Menu                     | Value | Min | Max | Unit    | Read Access | Write Access |
|--------------------------|-------|-----|-----|---------|-------------|--------------|
| Pull-in Time             | 0.2   | 0   | 30  | Seconds | OEM         | OEM          |
| Holding                  | 60    | 0   | 100 | %       | OEM         | OEM          |
| <b>58-PWM 2</b>          |       |     |     |         |             |              |
| Input                    | 0     | 0   | 120 |         | OEM         | OEM          |
| Pull-in                  | 100   | 0   | 100 | %       | OEM         | OEM          |
| Pull-in Time             | 0.2   | 0   | 30  | Seconds | OEM         | OEM          |
| Holding                  | 60    | 0   | 100 | %       | OEM         | OEM          |
| <b>59-PWM 3</b>          |       |     |     |         |             |              |
| Input                    | 0     | 0   | 120 |         | OEM         | OEM          |
| Pull-in                  | 100   | 0   | 100 | %       | OEM         | OEM          |
| Pull-in Time             | 0.2   | 0   | 30  | Seconds | OEM         | OEM          |
| Holding                  | 60    | 0   | 100 | %       | OEM         | OEM          |
| <b>60-PWM 4</b>          |       |     |     |         |             |              |
| Input                    | 0     | 0   | 120 |         | OEM         | OEM          |
| Pull-in                  | 100   | 0   | 100 | %       | OEM         | OEM          |
| Pull-in Time             | 0.2   | 0   | 30  | Seconds | OEM         | OEM          |
| Holding                  | 60    | 0   | 100 | %       | OEM         | OEM          |
| <b>61-PWM 5</b>          |       |     |     |         |             |              |
| Input                    | 0     | 0   | 120 |         | OEM         | OEM          |
| Pull-in                  | 100   | 0   | 100 | %       | OEM         | OEM          |
| Pull-in Time             | 0.2   | 0   | 30  | Seconds | OEM         | OEM          |
| Holding                  | 60    | 0   | 100 | %       | OEM         | OEM          |
| <b>Position Control</b>  |       |     |     |         |             |              |
| <b>62/63-Position</b>    |       |     |     |         |             |              |
| Input+                   | 0     | 0   | 120 |         | OEM         | OEM          |
| Input-                   | 0     | 0   | 120 |         | OEM         | OEM          |
| Enable input             | 0     | 0   | 120 |         | OEM         | OEM          |
| Kp                       | 20    | 0   | 100 | %       | OEM         | OEM          |
| <b>Correlation Check</b> |       |     |     |         |             |              |
| <b>70-Correlate</b>      |       |     |     |         |             |              |
| Input 1                  | 0     | 0   | 120 |         | OEM         | OEM          |
| Input 2                  | 0     | 0   | 120 |         | OEM         | OEM          |
| Tolerance                | 5     | 0   | 50  | %       | OEM         | OEM          |
| <b>Inhibit</b>           |       |     |     |         |             |              |
| 71-Inhibit Input         | 0     | 0   | 120 |         | OEM         | OEM          |
| <b>Slew Limiters</b>     |       |     |     |         |             |              |
| <b>73-Slew Limit 1</b>   |       |     |     |         |             |              |
| Input                    | 0     | 0   | 120 |         | OEM         | OEM          |
| Enable Input             | 0     | 0   | 120 |         | OEM         | OEM          |
| Rate Up                  | 5     | 0.1 | 30  | Seconds | OEM         | OEM          |
| Rate Dn                  | 5     | 0.1 | 30  | Seconds | OEM         | OEM          |
| <b>74-Slew Limit 2</b>   |       |     |     |         |             |              |
| Input                    | 0     | 0   | 120 |         | OEM         | OEM          |
| Enable Input             | 0     | 0   | 120 |         | OEM         | OEM          |
| Rate Up                  | 5     | 0.1 | 30  | Seconds | OEM         | OEM          |
| Rate Dn                  | 5     | 0.1 | 30  | Seconds | OEM         | OEM          |

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## CURTIS DC Permanent Magnet Motor Speed Controller Parameter List

**Model: 1229-3101**

| Menu                          | Value | Min | Max | Unit    | Read Access | Write Access |
|-------------------------------|-------|-----|-----|---------|-------------|--------------|
| <b>75-Slew Limit 3</b>        |       |     |     |         |             |              |
| Input                         | 0     | 0   | 120 |         | OEM         | OEM          |
| Enable Input                  | 0     | 0   | 120 |         | OEM         | OEM          |
| Rate Up                       | 5     | 0.1 | 30  | Seconds | OEM         | OEM          |
| Rate Dn                       | 5     | 0.1 | 30  | Seconds | OEM         | OEM          |
| <b>76-Slew Limit 4</b>        |       |     |     |         |             |              |
| Input                         | 0     | 0   | 120 |         | OEM         | OEM          |
| Enable Input                  | 0     | 0   | 120 |         | OEM         | OEM          |
| Rate Up                       | 5     | 0.1 | 30  | Seconds | OEM         | OEM          |
| Rate Dn                       | 5     | 0.1 | 30  | Seconds | OEM         | OEM          |
| <b>Voltage Comp</b>           |       |     |     |         |             |              |
| <b>77-Voltage Comp 1</b>      |       |     |     |         |             |              |
| Input                         | 0     | 0   | 120 |         | OEM         | OEM          |
| Max Voltage                   | 24    | 0   | 48  | Volt    | OEM         | OEM          |
| <b>78-Voltage Comp 2</b>      |       |     |     |         |             |              |
| Input                         | 0     | 0   | 120 |         | OEM         | OEM          |
| Max Voltage                   | 24    | 0   | 48  | Volt    | OEM         | OEM          |
| <b>79-Voltage Comp 3</b>      |       |     |     |         |             |              |
| Input                         | 0     | 0   | 120 |         | OEM         | OEM          |
| Max Voltage                   | 24    | 0   | 48  | Volt    | OEM         | OEM          |
| <b>80-Voltage Comp 4</b>      |       |     |     |         |             |              |
| Input                         | 0     | 0   | 120 |         | OEM         | OEM          |
| Max Voltage                   | 24    | 0   | 48  | Volt    | OEM         | OEM          |
| <b>Outputs</b>                |       |     |     |         |             |              |
| <b>81-Driver 2</b>            |       |     |     |         |             |              |
| Input                         | 0     | 0   | 120 |         | OEM         | OEM          |
| Enable Input                  | 0     | 0   | 120 |         | OEM         | OEM          |
| Fault Check                   | On    | Off | On  |         | OEM         | OEM          |
| <b>82-Driver 3</b>            |       |     |     |         |             |              |
| Disabled/Low Side             | 0     | 0   | 1   |         | OEM         | OEM          |
| Input                         | 0     | 0   | 120 |         | OEM         | OEM          |
| Enable Input                  | 0     | 0   | 120 |         | OEM         | OEM          |
| <b>83-Driver 4</b>            |       |     |     |         |             |              |
| Disabled/Low Side             | 0     | 0   | 1   |         | OEM         | OEM          |
| Input                         | 0     | 0   | 120 |         | OEM         | OEM          |
| Enable Input                  | 0     | 0   | 120 |         | OEM         | OEM          |
| <b>84-Driver 5</b>            |       |     |     |         |             |              |
| Disabled/Low Side             | 0     | 0   | 1   |         | OEM         | OEM          |
| Input                         | 0     | 0   | 120 |         | OEM         | OEM          |
| Enable Input                  | 0     | 0   | 120 |         | OEM         | OEM          |
| <b>85-Driver 6</b>            |       |     |     |         |             |              |
| Disabled/Low Side/High Side   | 0     | 0   | 2   |         | OEM         | OEM          |
| Input                         | 0     | 0   | 120 |         | OEM         | OEM          |
| Enable Input                  | 0     | 0   | 120 |         | OEM         | OEM          |
| <b>86-Driver 3/4 Actuator</b> |       |     |     |         |             |              |
| Enabled                       | Off   | Off | On  |         | OEM         | OEM          |

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## CURTIS DC Permanent Magnet Motor Speed Controller Parameter List

**Model: 1229-3101**

| Menu                                    | Value | Min | Max | Unit    | Read Access | Write Access |
|---|-------|-----|-----|---------|-------------|--------------|
| Input                                   | 0     | 0   | 120 |         | OEM         | OEM          |
| Rev Input                               | 0     | 0   | 120 |         | OEM         | OEM          |
| Enable Input                            | 0     | 0   | 120 |         | OEM         | OEM          |
| Accel                                   | 5     | 0.1 | 30  | Seconds | OEM         | OEM          |
| Decel                                   | 5     | 0.1 | 30  | Seconds | OEM         | OEM          |
| Stop Current                            | 10    | 1   | 10  | Ampere  | OEM         | OEM          |
| Stop Current Time                       | 10    | 0   | 30  | Seconds | OEM         | OEM          |
| Battery Voltage Comp                    | On    | Off | On  |         | OEM         | OEM          |
| <b>87-Driver 5/6 Actuator</b>           |       |     |     |         |             |              |
| Enabled                                 | Off   | Off | On  |         | OEM         | OEM          |
| Input                                   | 0     | 0   | 120 |         | OEM         | OEM          |
| Rev Input                               | 0     | 0   | 120 |         | OEM         | OEM          |
| Enable Input                            | 0     | 0   | 120 |         | OEM         | OEM          |
| Accel                                   | 5     | 0.1 | 30  | Seconds | OEM         | OEM          |
| Decel                                   | 5     | 0.1 | 30  | Seconds | OEM         | OEM          |
| Stop Current                            | 10    | 1   | 10  | Ampere  | OEM         | OEM          |
| Stop Current Time                       | 10    | 0   | 30  | Seconds | OEM         | OEM          |
| Battery Voltage Comp                    | On    | Off | On  |         | OEM         | OEM          |
| <b>88/89-Driver 3/4/5 Dual Actuator</b> |       |     |     |         |             |              |
| Enabled                                 | Off   | Off | On  |         | OEM         | OEM          |
| Input A                                 | 0     | 0   | 120 |         | OEM         | OEM          |
| Input B                                 | 0     | 0   | 120 |         | OEM         | OEM          |
| Rev Input                               | 0     | 0   | 120 |         | OEM         | OEM          |
| Enable A Input                          | 0     | 0   | 120 |         | OEM         | OEM          |
| Enable B Input                          | 0     | 0   | 120 |         | OEM         | OEM          |
| Accel                                   | 5     | 0.1 | 30  | Seconds | OEM         | OEM          |
| Decel                                   | 5     | 0.1 | 30  | Seconds | OEM         | OEM          |
| Simultaneous Enable                     | On    | Off | On  |         | OEM         | OEM          |
| Stop Current                            | 10    | 1   | 10  | Ampere  | OEM         | OEM          |
| Stop Current Time                       | 10    | 0   | 30  | Seconds | OEM         | OEM          |
| Battery Voltage Comp                    | On    | Off | On  |         | OEM         | OEM          |
| <b>Push</b>                             |       |     |     |         |             |              |
| 90-Push Input                           | 0     | 0   | 120 |         | OEM         | OEM          |
| <b>Throttle and Interlock</b>           |       |     |     |         |             |              |
| <b>91-Throttle</b>                      |       |     |     |         |             |              |
| Input                                   | 11    | 0   | 120 |         | OEM         | OEM          |
| Enable Input                            | 100   | 0   | 120 |         | OEM         | OEM          |
| Forward Deadband                        | 5     | 0   | 100 | %       | OEM         | OEM          |
| Forward Max                             | 95    | 0   | 100 | %       | OEM         | OEM          |
| Forward 0% Offset                       | 3     | 0   | 100 | %       | OEM         | OEM          |
| Forward 50% Map                         | 50    | 0   | 100 | %       | OEM         | OEM          |
| Reverse Deadband                        | 5     | 0   | 100 | %       | OEM         | OEM          |
| Reverse Max                             | 95    | 0   | 100 | %       | OEM         | OEM          |
| Reverse 0% Offset                       | 3     | 0   | 100 | %       | OEM         | OEM          |
| Reverse 50% Map                         | 50    | 0   | 100 | %       | OEM         | OEM          |
| Throttle Filter                         | 10    | 2   | 125 | Hz      | OEM         | OEM          |

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## CURTIS DC Permanent Magnet Motor Speed Controller Parameter List

**Model: 1229-3101**

| Menu                        | Value | Min    | Max   | Unit    | Read Access | Write Access |
|-----------------------------|-------|--------|-------|---------|-------------|--------------|
| HPD Type                    | 1     | 0      | 2     |         | OEM         | OEM          |
| SRO Type                    | 0     | 0      | 2     |         | OEM         | OEM          |
| HPD Threshold               | 1     | 1      | 25    | %       | OEM         | OEM          |
| HPD Latch                   | 0     | 0      | 10    | Seconds | OEM         | OEM          |
| Sequencing Delay            | 0.1   | 0      | 5     | Seconds | OEM         | OEM          |
| PotL Current Check          | On    | Off    | On    |         | OEM         | OEM          |
| 92-Forward Input            | 1     | 0      | 120   |         | OEM         | OEM          |
| 93-Reverse Input            | 0     | 0      | 120   |         | OEM         | OEM          |
| 94-Speed Mode Input         | 2     | 0      | 120   |         | OEM         | OEM          |
| 95-Speed Limit Input        | 100   | 0      | 120   |         | OEM         | OEM          |
| 96-Brake Pedal Input        | 0     | 0      | 120   |         | OEM         | OEM          |
| 97-Interlock Input          | 3     | 0      | 120   |         | OEM         | OEM          |
| <b>98-Emergency Reverse</b> |       |        |       |         |             |              |
| Input N/O                   | 0     | 0      | 120   |         | OEM         | OEM          |
| Input N/C                   | 0     | 0      | 120   |         | OEM         | OEM          |
| Fwd Only                    | Off   | Off    | On    |         | OEM         | OEM          |
| Max Current                 | 100   | 0      | 100   | %       | OEM         | OEM          |
| Dir Interlock               | On    | Off    | On    |         | OEM         | OEM          |
| Time Limit                  | 0.5   | 0      | 30    | Seconds | OEM         | OEM          |
| Speed                       | 15    | 0      | 100   | %       | OEM         | OEM          |
| Accel                       | 1     | 0.1    | 30    | Seconds | OEM         | OEM          |
| Decel                       | 1     | 0.1    | 30    | Seconds | OEM         | OEM          |
| <b>Constants</b>            |       |        |       |         |             |              |
| 99-Constant Value           | 50    | 0      | 100   | %       | OEM         | OEM          |
| 100-100%                    | 100   | 0      | 100   | %       | OEM         | Developer    |
| <b>User Inputs</b>          |       |        |       |         |             |              |
| <b>111-User 1</b>           |       |        |       |         |             |              |
| Min                         | 0     | -32767 | 32767 |         | OEM         | OEM          |
| Max                         | 0     | -32767 | 32767 |         | OEM         | OEM          |
| <b>112-User 2</b>           |       |        |       |         |             |              |
| Min                         | 0     | -32767 | 32767 |         | OEM         | OEM          |
| Max                         | 0     | -32767 | 32767 |         | OEM         | OEM          |
| <b>113-User 3</b>           |       |        |       |         |             |              |
| Min                         | 0     | -32767 | 32767 |         | OEM         | OEM          |
| Max                         | 0     | -32767 | 32767 |         | OEM         | OEM          |
| <b>114-User 4</b>           |       |        |       |         |             |              |
| Min                         | 0     | -32767 | 32767 |         | OEM         | OEM          |
| Max                         | 0     | -32767 | 32767 |         | OEM         | OEM          |
| <b>115-User 5</b>           |       |        |       |         |             |              |
| Min                         | 0     | -32767 | 32767 |         | OEM         | OEM          |
| Max                         | 0     | -32767 | 32767 |         | OEM         | OEM          |
| <b>116-User 6</b>           |       |        |       |         |             |              |
| Min                         | 0     | -32767 | 32767 |         | OEM         | OEM          |
| Max                         | 0     | -32767 | 32767 |         | OEM         | OEM          |
| <b>117-User 7</b>           |       |        |       |         |             |              |
| Min                         | 0     | -32767 | 32767 |         | OEM         | OEM          |

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## CURTIS DC Permanent Magnet Motor Speed Controller Parameter List

**Model: 1229-3101**

| Menu                         | Value | Min    | Max   | Unit    | Read Access | Write Access |
|------------------------------|-------|--------|-------|---------|-------------|--------------|
| Max                          | 0     | -32767 | 32767 |         | OEM         | OEM          |
| <b>118-User 8</b>            |       |        |       |         |             |              |
| Min                          | 0     | -32767 | 32767 |         | OEM         | OEM          |
| Max                          | 0     | -32767 | 32767 |         | OEM         | OEM          |
| <b>119-User Fault Estop</b>  |       |        |       |         |             |              |
| Input                        | 0     | 0      | 120   |         | OEM         | OEM          |
| Delay                        | 0     | 0      | 5     | Seconds | OEM         | OEM          |
| <b>120-User Fault Severe</b> |       |        |       |         |             |              |
| Input                        | 0     | 0      | 120   |         | OEM         | OEM          |
| Delay                        | 0     | 0      | 5     | Seconds | OEM         | OEM          |
| <b>Main Contactor</b>        |       |        |       |         |             |              |
| Main/Brake Frequency         | 0.4   | 0.2    | 1     | kHz     | OEM         | OEM          |
| Pull-in                      | 100   | 0      | 100   | %       | OEM         | OEM          |
| Holding                      | 60    | 0      | 100   | %       | OEM         | OEM          |
| Battery Voltage Comp         | On    | Off    | On    |         | OEM         | OEM          |
| Fault Check                  | On    | Off    | On    |         | OEM         | OEM          |
| Open Delay                   | 5     | 0      | 40    | Seconds | OEM         | OEM          |
| <b>EM Brake</b>              |       |        |       |         |             |              |
| Enable                       | On    | Off    | On    |         | OEM         | OEM          |
| Pull-in                      | 100   | 0      | 100   | %       | OEM         | OEM          |
| Holding                      | 60    | 0      | 100   | %       | OEM         | OEM          |
| Battery Voltage Comp         | On    | Off    | On    |         | OEM         | OEM          |
| Fault Check                  | On    | Off    | On    |         | OEM         | OEM          |
| Delay                        | 1     | 0      | 1     | Seconds | OEM         | OEM          |
| <b>Battery</b>               |       |        |       |         |             |              |
| Nominal Voltage              | 24    | 24     | 36    | Volt    | OEM         | OEM          |
| Full Voltage                 | 24.4  | 0      | 42    | Volt    | OEM         | OEM          |
| Empty Voltage                | 21    | 0      | 42    | Volt    | OEM         | OEM          |
| Full Charge Voltage          | 28    | 0      | 42    | Volt    | OEM         | OEM          |
| Start Charge Voltage         | 23.5  | 0      | 42    | Volt    | OEM         | OEM          |
| Reset Voltage                | 25.9  | 0      | 42    | Volt    | OEM         | OEM          |
| Discharge Factor             | 1     | 0.1    | 10    |         | OEM         | OEM          |
| Charge Factor                | 3     | 0.1    | 10    |         | OEM         | OEM          |
| <b>Motor</b>                 |       |        |       |         |             |              |
| System Resistance            | 30    | 0      | 800   | mOhms   | OEM         | OEM          |
| Test Mode                    | Off   | Off    | On    |         | Dealer      | Dealer       |
| Speed Scaler                 | 24    | 0      | 36    | Volt    | OEM         | OEM          |
| Current Rating               | 100   | 0      | 250   | Ampere  | OEM         | OEM          |
| Max Current Time             | 60    | 0      | 120   | Seconds | OEM         | OEM          |
| Open Detect                  | On    | Off    | On    |         | OEM         | OEM          |
| <b>Current Limits</b>        |       |        |       |         |             |              |
| Main Current Limit           | 200   | 30     | 200   | Ampere  | OEM         | OEM          |
| Regen Current Limit          | 200   | 30     | 200   | Ampere  | OEM         | OEM          |
| Boost Current                | 220   | 30     | 220   | Ampere  | OEM         | OEM          |
| Boost Time                   | 5     | 0      | 10    | Seconds | OEM         | OEM          |
| <b>Compensation</b>          |       |        |       |         |             |              |

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**CURTIS DC Permanent Magnet Motor Speed Controller Parameter List**  
**Model: 1229-3101**

| Menu                   | Value | Min | Max   | Unit    | Read Access | Write Access |
|------------------------|-------|-----|-------|---------|-------------|--------------|
| IR Comp                | 65    | 0   | 100   | %       | OEM         | OEM          |
| Anti Rollback Comp     | 80    | 0   | 125   | %       | OEM         | OEM          |
| <b>Misc</b>            |       |     |       |         |             |              |
| Sleep                  | 0     | 0   | 60    | Minutes | OEM         | OEM          |
| <b>CAN Interface</b>   |       |     |       |         |             |              |
| Node ID                | 38    | 0   | 127   |         | OEM         | OEM          |
| Baud Rate              | 0     | -3  | 4     |         | OEM         | OEM          |
| <b>Slave Mode</b>      |       |     |       |         |             |              |
| Operational on KSI     | On    | Off | On    |         | OEM         | OEM          |
| CANopen Interlock      | Off   | Off | On    |         | OEM         | OEM          |
| Heartbeat Rate         | 100   | 16  | 200   | ms      | OEM         | OEM          |
| PDO Timeout Period     | 100   | 0   | 200   | ms      | OEM         | OEM          |
| Emergency Message Rate | 16    | 16  | 200   | ms      | OEM         | OEM          |
| PDO1 TX COB Id         | 0     | 0   | 65535 |         | OEM         | OEM          |
| PDO1 RX COB Id         | 480   | 0   | 65535 |         | OEM         | OEM          |
| PDO2 TX COB Id         | 0     | 0   | 65535 |         | OEM         | OEM          |
| PDO2 RX COB Id         | 0     | 0   | 65535 |         | OEM         | OEM          |
| <b>3100R Master</b>    |       |     |       |         |             |              |
| Enable                 | On    | Off | On    |         | OEM         | OEM          |
| Device ID              | 123   | 0   | 255   |         | OEM         | OEM          |
| Backlight              | On    | Off | On    |         | OEM         | OEM          |
| 0/1 Icons              | Off   | Off | On    |         | OEM         | OEM          |
| Low BDI Alert          | 10    | 0   | 100   | %       | OEM         | OEM          |
| Service Interval Alert | 0     | 0   | 10000 | Hours   | OEM         | OEM          |