**Name, Starting Register, #ofRegisters**

Alarms, 6668, 25

Alarm Boolean, 9145,1 (bit 15)

Fault Boolean, 9146,1 (bit 0)

Status, 9244,1

Controller Mode, 8315, 1

Old Active Power, 8202 , 1

New Page 6, Derived Instrumentation add 1536 to Register Offset

**8xxx/7xxx/6xxx/P100/L40x/4xxx register allocation**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Register offset | Name | Minimum value | Maximum value | Scaling factor | Units | Bits/ Sign |
| 0-1 | Generator total watts | -99,999,999 | 99,999,999 | 1 | W | 32S |

Old Reactive Power, 8203, 1

New Page 6, Derived Instrumentation add 1536 to Register Offset

**8xxx/7xxx/6xxx/P100/L40x/4xxx register allocation**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Register offset | Name | Minimum value | Maximum value | Scaling factor | Units | Bits/ Sign |
| 16-17 | Generator total Var | -99,999,999 | 99,999,999 | 1 | Var | 32S |

Old Power Factor, 8204, 1

New Page 6, Derived Instrumentation add 1536 to Register Offset

**8xxx/7xxx/6xxx/P100/L40x/4xxx register allocation**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Register offset | Name | Minimum value | Maximum value | Scaling factor | Units | Bits/ Sign |
| 21 | Generator average power factor | -1 | 1 | 0.01 |  | 16S |
|  |  |  |  |  |  |  |

Old Run Hours, 8206, 2 (First word not used, second word is used as run hours

New Page 7 – Accumulated Instrumentation add 1792 to register offset.

**Notes:**

1. These are read/write registers though some systems may not support writing to some registers.

**8xxx/7xxx/6xxx/L40x/4xxx register allocation**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Register offset | Name | Minimum value | Maximum value | Scaling factor | Units | Bits/ Sign |
| 6-7 | Engine run time | 0 | 4.29 x109 | 1 | Seconds | 32 |

Old Frequency, 8210, 1

New Page 4 – Basic Instrumentation add 1024 to register offset

**Notes:**

1. These are read only registers.
2. Register 0 in page 4 will reflect all positive values and will be set to the under measureable range sentinel for negative values.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Register offset | Name | Minimum value | Maximum value | Scaling factor | Units | Bits/ sign |
| 7 | Generator frequency | 0 | 70 | 0.1 | Hz | 16 |

Old Battery Voltage, 8213, 1

New Page 4 – Basic Instrumentation add 1024 to register offset.

**Notes:**

1. These are read only registers.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Register offset | Name | Minimum value | Maximum value | Scaling factor | Units | Bits/ sign |
| 5 | Engine Battery voltage | 0 | 40 | 0.1 | V | 16 |

Old Apparent Power, 8565, 1

New Page 6, Derived Instrumentation add 1536 to Register Offset  
**8xxx/7xxx/6xxx/P100/L40x/4xxx register allocation**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Register offset | Name | Minimum value | Maximum value | Scaling factor | Units | Bits/ Sign |
| 8-9 | Generator total VA | 0 | 99,999,999 | 1 | VA | 32S |

Old Fuel Rate, 10162, 1

## New page 5 – Extended Instrumentation add 1280 to register offset

**Notes:**

1. These are read only registers.

| Register offset | Name | Minimum value | Maximum value | Scaling factor | Units | Bits/ Sign |
| --- | --- | --- | --- | --- | --- | --- |
| 10-11 | Fuel consumption | 0 | 10000 | 0.01 | L/hour | 32 |

Old Total Fuel, 10174, 2 (32 bit value, multiplied by 0.1)

New Page 7 – Accumulated Instrumentation add 1792 to register offset.

**Notes:**

1. These are read/write registers though some systems may not support writing to some registers.

**8xxx/7xxx/6xxx/L40x/4xxx register allocation**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Register offset | Name | Minimum value | Maximum value | Scaling factor | Units | Bits/ Sign |
| 34-35 | Fuel used | 0 | 4.29 x109 | 1 | Litre | 32 |

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