Shredder 8000

Version 8.1

# Register Details

Unless otherwise specified, registers are two bytes in length in Big Endian format.

# Register map

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Number | Description | Type | Function Code | Byte Order | Details |
| 1000 | Analog Input #1 | IEEE 754 | 4 |  |  |
| 1002 | Analog Input #2 | IEEE 754 | 4 |  |  |
|  |  |  |  |  |  |
| 1000 | Status | ui2 | 3 |  | Bit mask  Bit 1: Valve State  Bit 2: Failure |
| 1001 | Voltage | ui2 | 3 |  | Integer value scaled by .001 produce a floating point value |
| Meter 1 |  |  |  |  |  |
| 2001 | Meter Type | IEEE 754 | 3 |  |  |
| 2003 | Contract Hour | IEEE 754 | 3 |  |  |
| Meter 2 |  |  |  |  |  |
| 2101 | Meter Type | IEEE 754 | 3 |  |  |
| 2103 | Contract Hour | IEEE 754 | 3 |  |  |
| Meter 3 |  |  |  |  |  |
| 2201 | Meter Type | IEEE 754 | 3 |  |  |
| 2203 | Contract Hour | IEEE 754 | 3 |  |  |
| Meter 4 |  |  |  |  |  |
| 2301 | Meter Type | IEEE 754 | 3 |  |  |
| 2303 | Contract Hour | IEEE 754 | 3 |  |  |
|  |  |  |  |  |  |
| 9002 | Version | IEEE 754 | 3 |  |  |
| 9004 | Model | String | 3 | Little Endian | 8 Registers |
|  |  |  |  |  |  |

# Hourly History

Hourly history follows the Enron history specification. All meter runs share the same index register 7001, and start at history register 790, incrementing by one for each meter run. Four meter runs are supported.

|  |  |  |
| --- | --- | --- |
| History Columns |  |  |
| Total Gas Flow | IEEE 754 | MCF |
| Total Energy Flow | IEEE 754 | MMBTU |
| Average DP | IEEE 754 | inH20 |
| Average SP | IEEE 754 | Psig |
| Average Temp | IEEE 754 | F |
| Average Sq Root Ext | IEEE 754 |  |
| Flow Time | IEEE 754 | Min |

# Events

Events follow the Enron events specification utilizing event register 32.