

OI-6000 Modbus Register Map

| Addrogg Addrogg Data Description D/W Longth H | | | | | |
|--|----------------------------------|--|--|--|--|
| Aduress Aduress Data Description K/W Length Units V | alid Response | | | | |
| Radio Data | | | | | |
| 1 1 Reading R 2 FLOAT Any valid set | ensor reading | | | | |
| 3 3 ModBus Address R 1 Unsigned INTEGER 0 – 247 | | | | | |
| 4 4 Gas Type R 1 ENUM 1-127, See | e Below | | | | |
| 5 5 Unit Type R 1 ENUM $1-2$, See B | Below | | | | |
| 6 6 Revision Major R 1 Unsigned INTEGER 0-100 | | | | | |
| 7 7 Revision Minor R 1 Unsigned INTEGER 0-9 | | | | | |
| 8 8 Mode of Sensor R 1 ENUM $0-7$, See B | Below | | | | |
| 9 9 Voltage reading R 2 FLOAT 12V-35V | | | | | |
| B11FaultR1ENUM $0-15$, See | Below | | | | |
| C 12 Sensor Type R 1 ENUM $0-31$, See | Below | | | | |
| D 13 Radio Address R 1 INTEGER 1-255, -1 r | means no radio | | | | |
| E 14 Relay1 Settings R 2 FLOAT $1-32000, \cdot$ | -1 means no relay1 | | | | |
| 10 16 Relay2 Settings R 2 FLOAT 1-32000, · | -1 means no relay2 | | | | |
| 0.01(limited | d by precision) – 10% full | | | | |
| 12 18 Background if not O2 R 2 FLOAT scale1 me | eans no radio | | | | |
| 12 18 Background High if O2 R 2 FLOAT 16 - 24, -1 r | means no radio | | | | |
| 14 20 Background Low if O2 R 2 FLOAT 16 – 24, -1 r | means no radio | | | | |
| 16 22 Precision R 1 INTEGER 0-3 | | | | | |
| 17 23 Relay Settings R 1 8 BITS Each bit = a | a setting, see below. | | | | |
| 0-60000. N | umber of days since last | | | | |
| Null. 60000 |) or above means null is at | | | | |
| 18 24 Last Time Null R 1 Unsigned INTEGER factory defa | ault (never). | | | | |
| 19 25 Auto-Cal Yes/No R 1 INTEGER 0 is for man | ual, 1 is for auto cal. | | | | |
| Any valid n | number above the lowest | | | | |
| 1A 26 Cal Value for Auto-Cal R 2 Float decimal and | d below the scale of the | | | | |
| 0-60000. N | umber of days since last Cal. | | | | |
| 60000 or ab | bove means cal is at factory | | | | |
| 1C 28 Last Time Cal R 1 Unsigned INTEGER default (new | ver). | | | | |
| 1D 29 Not used R 1 INTEGER 0 | | | | | |
| 1E 30 Relay 1 State R 1 INTEGER 0,1 0 means | s inactive, 1 means active. | | | | |
| 1F31Relay 2 StateR1INTEGER0,1 0 means | s inactive, 1 means active. | | | | |
| 2032Relay 1 ResetR/W1INTEGERRead as 0, v | write a 1 to reset relay 1 state | | | | |
| 2133Relay 2 ResetR/W1INTEGERRead as 0, w | write a 1 to reset relay 2 state | | | | |

| GAS TYPE NUM | GAS |
|--------------|---------------|
| 0 | H2S |
| 1 | SO2 |
| 2 | 02 |
| 3 | CO |
| 4 | CL2 |
| 5 | CO2 |
| 6 | LEL |
| 7 | VOC |
| 8 | Feet |
| 9 | HCI |
| 10 | NH3 |
| 11 | H2 |
| 12 | CIO2 |
| 13 | HCN |
| 14 | F2 |
| 15 | HF |
| 16 | CH20 |
| 17 | NO2 |
| 18 | O3 |
| 19 | Inches |
| 20 | 420 |
| 21 | Not Specified |
| 22 | Celsius |
| 23 | Fahrenheit |
| 24N | Future Gases |

| Relay Settings | Bit | Function |
|-------------------|-----|--------------------------|
| | | 0 is unlatched, 1 is |
| Relay 1 Latch | 0 | latched. |
| | | 0 is unlatched, 1 is |
| Relay 2 Latch | 1 | latched. |
| | | 0 is not fail-safe, 1 is |
| Relay 1 Fail-safe | 2 | fail-safe. |
| | | 0 is not fail-safe, 1 is |
| Relay 2 Fail-safe | 3 | fail-safe. |
| | | |
| Relay 1 Rise/Fall | 4 | 0 is fall, 1 is rise. |
| | | |
| Relay 2 Rise/Fall | 5 | 0 is fall, 1 is rise. |
| Background | | |
| Rise/Fall | 6 | 0 is fall, 1 is rise. |
| Background Low | | |
| Rise/Fall | 7 | 0 is fall, 1 is rise. |

| Sheet | 1 |
|---------------|------|
| UNIT TYPE NUM | UNIT |
| 0 | РРМ |
| 1 | % |

| SENSOR NUM | TYPE |
|------------|---------------|
| 0 | EC |
| 1 | IR |
| 2 | СВ |
| 3 | MOS |
| 4 | PID |
| 5 | TANK |
| 6 | 420 |
| 7 | SWITCH |
| 8 | Unknown |
| 30 | WF190 |
| 31 | None Selected |
| 5N | Future Type |

| FAULT | FAULT |
|-------|--------------------------|
| 0 | NONE |
| 1 | Sensor Timeout |
| 2 | Future Error |
| 3 | Future Error |
| 4 | ADC not responding |
| 5 | Fault While nulling. |
| 6 | Fault While calibrating. |
| 7 | Future Error |
| 8 | N/A |
| 9 | N/A |
| 10 | N/A |
| 1113 | Future Error |
| 14 | Radio not see primary. |
| 15 | N/A |

| MODE SENSOR | MODE |
|-------------|------------|
| | |
| 0 | NORMAL |
| 1 | NULL |
| 2 | CAL |
| 3 | RELAY |
| 4 | RADIO ADD |
| 5 | DIAGNOSTIC |
| 6 | ADVANCED |
| 7 | ADMIN |
| Dogo (| 0 |