Modbus Register
Polymetron 9586 Oxygen Scavengers

V 1.02

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Polymetron 9586 Oxygen Scavengers V 1.02

Name	Register	Data Type	Length	Access Mode	Discrete Range	Min / Max	Description
O2 SCAVENGER	40001	Unsigned Integer	1	R	Current Meas		
TEMPERATURE	40002	Unsigned Integer	1	R			
TEMP C	40003	Float	2	R	C		
TEMP F	40005	Float	2	R	F		
O2 SCAVENGER in ppm	40007	Float	2	R	ppm		
O2 SCAVENGER in mg/l	40009	Float	2	R	mg /l		
FUNCTION CODE	40011	Unsigned Integer	1	R/W			
NEXT STATE	40012	Unsigned Integer	1	R			
TEMP UNITS	40013	Unsigned Integer	1	R/W			U25/26
FILTER	40014	Unsigned Integer	1	R/W	s		
READING.	40015	Unsigned Integer	1	R/W			0/1/2/3/4/5/6/7/8/9/10
OUTPUT MODE	40017	Unsigned Integer	1	R/W			0/1/2
CAL LEAVE	40018	Unsigned Integer	1	R/W			0/1/2
CAL EDIT VALUE	40019	Unsigned Integer	1	R			
SOFTWARE VERS	40022	Float	2	R			
MODULE SERIAL NO	40024	String	6	R			
BOOTLOADER VER	40030	Float	2	R			
SENS INTERVAL	40032	Unsigned Integer	1	R/W			0/1/2/3/4/5/6/7/8
CAL FACTOR	40033	Float	2	R	µA /ppm		
SENSOR SIGNAL	40035	Float	2	R	mV		
MEMBRANE DAYS	40037	Integer	1	R	Day		
DRIVER VERS	40038	Unsigned Integer	1	R			
SERIAL NUMBER	40039	String	8	R/W			
OP ID ON CAL	40047	Unsigned Integer	1	R/W			0/1
CAL REMINDER	40048	Unsigned Integer	1	R/W			0/1/2/3/4/5/6/7/8/9
CAL DATE	40049	Time2	2	R			
CAL TIME	40051	Time2	2	R			
CAL STATUS	40053	Unsigned Integer	1	R			0/1
O2 SCAVENGER CAL UNIT	40059	Unsigned Integer	1	R			38/2/4/39/0/5
OP ID	40060	String	2	R/W			
CAL DAYS	40062	Unsigned Integer	1	R	Day		
MSGS	40063	Unsigned Integer	1	R			0/1/2/3/4/5/6/7/8/9/10/11/12/13/14
CAL WARN MSG	40064	Unsigned Integer	1	R			0/1/2/3/4/5/6/7/8/9/10/11/12/13/14
LOG FLOAT	40065	Float	2	R			
LOG TEXT	40067	String	8	R			

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Name	Register	Data Type	Length	Access Mode	Discrete Range	Min / Max	Description
LOG INT	40075	Integer	1	R			
LOG PARAM	40076	String	8	R			
DATE 1	40084	Time2	2	R			
DATE 2	40086	Time2	2	R			
DATE 3	40088	Time2	2	R			
DATE 4	40090	Time2	2	R			
DATE 5	40092	Time2	2	R			
DATE 6	40094	Time2	2	R			
TIME 1	40096	Time2	2	R			
TIME 2	40098	Time2	2	R			
TIME 3	40100	Time2	2	R			
TIME 4	40102	Time2	2	R			
TIME 5	40104	Time2	2	R			
TIME 6	40106	Time2	2	R			
HIDDEN LINE	40109	Unsigned Integer	1	R			
HIGH LIGHT LINE	40110	Unsigned Integer	1	R			
SensorType O2 SCAVENGER	40111	Unsigned Integer	1	R			
New Sensor O2 SCAVENGER	40112	Unsigned Integer	1	R/W			1/0
Raw Temperature Value	40113	Float	2	R	TEMP UNITS		
TEMP. CAL USER	40117	Float	2	R/W	TEMP UNITS		
DD CONTENT	40119	Unsigned Integer	1	R			
NAME	40120	String	8	R/W			
Resistor Range	40132	Unsigned Integer	1	R			
O2 SCAVENGER in ppb	40133	Float	2	R	ppb		
O2 SCAVENGER in ug/l	40135	Float	2	R	µg /l		
Zero cal offset	40137	Float	2	R	nA		
CalHistoryConcMeas O2 SCAVENGER	40145	Unsigned Integer	1	R			
Current / Membrane Signal (nA)	40154	Float	2	R	nA		
Temp Cal mV O2 SCAVENGER	40156	Float	2	R	mV		
CalHistTemp O2 SCAVENGER	40158	Unsigned Integer	1	R			
CalHistoryTempOffset O2 SCAVENGER	40163	Unsigned Integer	1	R			
Last Gas Calibration Units FOR O2 SCAVENGER	40181	Float	2	R			
Last Gas Calibration Status	40183	Float	2	R			
Last Gas Calibration type	40185	Float	2	R			
Last Temperature Calibration Units	40187	Float	2	R			

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Name	Register	Data Type	Length	Access Mode	Discrete Range	Min / Max	Description
O2 Scavenger New Sensor For Calibration	40189	Float	2	R			
Present User Selected Temp Unit	40191	Float	2	R			
Temp Cal offset during calibration	40193	Float	2	R			
User entered Gas concentration during calibration	40195	Float	2	R			
Temp Cal Offset Value	40197	Float	2	R			
Temp Units During Cal	40199	Float	2	R			
O2 Scav Conc Value during last calibration	40201	Float	2	R			
Gas Conc Units During Calibration	40203	Float	2	R			

ALL Sensors and Analyzer: Classified ERROR Word - Register 49930

Table 2 Error register

Bit	Error	Description
0	Calibration error	Faulty calibration detected
1	Electronic settings error	Faulty electronic calibration/settings
2	Cleaning error	Error in cleaning cycle detected
3	Measuring module error	Error in measuring module detected
4	System initialization	Inconsistent settings detected, reset to factory settings
5	Hardware error	Faulty hardware detected
6	Internal communication error	Internal communication error detected
7	Humidity error	Excessive humidity detected
8	Excessive temperature	Excessive temperature detected
9		
10	Sample feed warning	Error in sample feed detected
11	Questionable calibration warning	Accuracy of previous calibration inadequate
12	Questionable measurement warning	Accuracy of previous measurement inadequate/out of range
13	Safety warning	Safety equipment error detected
14	Reagent warning	Reagent warning, e.g. fill level < min detected
15	Service request warning	Service request detected

ALL Sensors and Analyzer: Classified STATUS Word - Register 49931

Table 3 Status register

Bit	Status 1	Description
0	Calibration activated	Calibration in progress, measurement value not up to date
1	Cleaning activated	Cleaning in progress, measurement value not up to date
2	Service mode activated	Device in "Service" mode, measurement value not up to date
3	General error message	General error detected, refer to error text for details
4	Measurement value channel 0, poor quality	Measurement accuracy is not within specified limits
5	Measurement value channel 0, range short-fall	Measurement value falls short of the specified range
6	Measurement value channel 0, range exceeded	Measurement value exceeds the specified range
7	Measurement value channel 1, poor quality	Measurement accuracy is not within specified limits
8	Measurement value channel 1, range short-fall	Measurement value falls short of the specified range
9	Measurement value channel 1, range exceeded	Measurement value exceeds the specified range
10	Measurement value channel 2, poor quality	Measurement accuracy is not within specified limits
11	Measurement value channel 2, range short-fall	Measurement value falls short of the specified range
12	Measurement value channel 2, range exceeded	Measurement value exceeds the specified range
13	Measurement value channel 3, poor quality	Measurement accuracy is not within specified limits
14	Measurement value channel 3, range short-fall	Measurement value falls short of the specified range
15	Measurement value channel 3, range exceeded	Measurement value exceeds the specified range