

Modbus Register LDO sc Model 2

V 1.29

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Name	Register	Data Type	Length	Access Mode	Discrete Range	Min / Max	Description
DO (ppm)	40001	Float	2	R	ppm		
DO (mg/l)	40001	Float	2	R	mg /l		
DO (%)	40003	Float	2	R	%		
Temperature (C)	40005	Float	2	R	C		
Temperature (F)	40005	Float	2	R	F		
Phase difference	40007	Float	2	R			
Blue phase	40009	Float	2	R			
Red phase	40011	Float	2	R			
Blue magnitude	40013	Float	2	R			
Red magnitude	40015	Float	2	R			
Software Version	40017	Float	2	R			
	40019	Float	2	R			
	40021	Float	2	R			
	40023	Float	2	R			
	40025	Float	2	R			
	40027	Float	2	R			
	40029	Float	2	R			
	40031	Float	2	R			
	40033	Float	2	R			
	40035	Float	2	R			
Sample value (ppm)	40037	Float	2	R/W	ppm		
Sample value (mg/l)	40037	Float	2	R/W	mg /l		
Sample value (%)	40037	Float	2	R/W	%		
	40039	Float	2	R			
Altitude (feet)	40041	Float	2	R/W	ft		
Altitude (m)	40041	Float	2	R/W	m		
Pressure (mmHg)	40041	Float	2	R/W	mmHg		
Pressure (Torr)	40041	Float	2	R/W	torr		
Salinity	40043	Float	2	R/W	<0 /00>		
Offset (ppm)	40045	Float	2	R/W	ppm		
Offset (mg/l)	40045	Float	2	R/W	mg /l		
Offset (%)	40045	Float	2	R/W	%		
Gain (slope)	40047	Float	2	R/W			
	40049	Float	2	R/W			
	40051	Float	2	R/W			
	40053	Float	2	R/W			
	40055	Float	2	R/W			
	40057	Float	2	R/W			
	40059	Float	2	R/W			
	40061	Float	2	R/W			
	40063	Float	2	R/W			
	40065	Float	2	R/W			
	40067	Float	2	R/W			
	40069	Float	2	R/W			
	40071	Float	2	R/W			
	40073	Float	2	R/W			
	40075	Float	2	R/W			
	40077	Float	2	R/W			
	40079	Float	2	R/W			

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Name	Register	Data Type	Length	Access Mode	Discrete Range	Min / Max	Description
	40081	Float	2	R/W			
	40083	Float	2	R/W			
	40085	Float	2	R/W			
	40087	Float	2	R/W			
	40089	Float	2	R/W			
Meas unit	40091	Unsigned Integer	1	R/W			U0/2/10
Alt/Press unit	40092	Unsigned Integer	1	R/W			U13/43/45/47
Temp unit	40093	Unsigned Integer	1	R/W			U25/26
	40094	String	5	R			
	40099	String	6	R			
Signal Avg	40105	Unsigned Integer	1	R/W	s		
Log Interval	40106	Unsigned Integer	1	R/W			0/1/2/3/4/5/6/7
	40107	Unsigned Integer	1	R			
Function Code	40108	Unsigned Integer	1	R/W			
Next state	40109	Unsigned Integer	1	R			
DO	40110	Unsigned Integer	1	R			
Temperature	40111	Unsigned Integer	1	R			
Alt or press	40112	Unsigned Integer	1	R			
Sample value	40113	Unsigned Integer	1	R			
Offset	40114	Unsigned Integer	1	R			
Serial Number	40115	String	6	R/W			
Output mode	40121	Unsigned Integer	1	R			0/1/2
Abort query	40122	Unsigned Integer	1	R/W			0/1/2
NoYes query	40123	Unsigned Integer	1	R/W			0/1
DO (integer mg/l)	40124	Integer	1	R	mg /l		
DO (integer ppm)	40125	Integer	1	R	ppm		
DO (integer %)	40126	Integer	1	R	%		
Temperature (integer F)	40127	Integer	1	R	F		
Temperature (integer C)	40128	Integer	1	R	C		
Name	40129	String	8	R/W			
Clean interval	40137	Unsigned Integer	1	R/W	days		
Sensor life	40138	Unsigned Integer	1	R	days		
Boot version	40139	Float	2	R			
Driver version	40141	Unsigned Integer	1	R			
Days to clean	40142	Unsigned Integer	1	R	days		

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Name	Register	Data Type	Length	Access Mode	Discrete Range	Min / Max	Description
	40143	Unsigned Integer	1	R/W			0/1/2/3/4/5/6
Cap Lot Code	40144	Unsigned Integer	1	R			
Offset	40145	Float	2	R			
AltPress	40147	Float	2	R			
Ref voltage	40149	Float	2	R			
Int temp	40151	Float	2	R			
Int pressure	40153	Float	2	R			
Int humidity	40155	Float	2	R			
5V	40157	Float	2	R			
	40159	Unsigned Integer	1	R/W			
	40160	Unsigned Integer	1	R/W			
	40161	Unsigned Integer	1	R			
	40162	Unsigned Integer	1	R			
	40163	Float	2	R			
	40165	Unsigned Integer	1	R			
HIGH LIMIT	40166	Float	2	R			
LOW LIMIT	40168	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



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