Modbus Register
pHD sc

V 3.50

HACH®

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Name	Register	Data Type	Length	Access Mode	Discrete Range	Min / Max	Description
SensorMeasTag	40001	Unsigned Integer	1	R			
pH	40002	Float	2	R	pH		
ORP	40002	Float	2	R	mV		
TempMeasTag	40004	Unsigned Integer	1	R			
TEMP	40005	Float	2	R	C		
TEMP	40005	Float	2	R	F		
SensorName6	40007	String	6	R/W			
FuncCode	40013	Unsigned Integer	1	R/W			
NextState	40014	Unsigned Integer	1	R			
MeasType	40015	Unsigned Integer	1	R/W			0/1
TempUnits	40016	Unsigned Integer	1	R/W			U25/26
PhFormat	40017	Unsigned Integer	1	R/W			0/1
TaggedPhFormat	40018	Unsigned Integer	2	R/W			
Filter	40020	Unsigned Integer	1	R/W	s		
TempElementType	40021	Unsigned Integer	1	R/W			0/1/2/4
TempUserValueTag	40022	Unsigned Integer	1	R/W	C		
TempUserDegCValue	40023	Float	2	R/W	C		
TempUserDegFValue	40023	Float	2	R/W	F		
PhBuffer	40025	Unsigned Integer	1	R/W			0/1
PureWaterCompType	40026	Unsigned Integer	1	R/W			0/1/2/3/4/5/6/7/8
PureWaterCompUser	40027	Float	2	R/W	pH /C		
OutputMode	40029	Unsigned Integer	1	R/W			0/1/2
CalLeave	40030	Unsigned Integer	1	R/W			0/1/2
CalAbort	40031	Unsigned Integer	1	R/W			0/1
CalEditValueTag	40032	Unsigned Integer	1	R/W			
CalEditPhValue	40033	Float	2	R/W	pH		
CalEditOrpValue	40033	Float	2	R/W	mV		
PhSlope	40035	Float	2	R/W	mV /pH		
SoftwareVersion	40037	Float	2	R			
SoftwareVersion1	40039	Float	2	R			
SoftwareVersion2	40041	Float	2	R			
SerialNumber	40043	String	6	R			
PhOffset	40049	Float	2	R/W			
OrpOffset	40051	Float	2	R/W	mV		
CalCode	40053	Unsigned Integer	1	R/W			
SensorLogInterval	40054	Unsigned Integer	1	R/W			0/1/2/3/4/5/6/7/8/9/10/11/12/13

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Name	Register	Data Type	Length	Access Mode	Discrete Range	Min / Max	Description
TempLogInterval	40055	Unsigned Integer	1	R/W			0/1/2/3/4/5/6/7/8/9/10/11/12/13
Signal	40056	Float	2	R/W	mV		
ProdDate	40058	Time2	2	R/W			
ActiveElectrode	40060	Float	2	R/W	M<Ohm>		
RefElectrode	40062	Float	2	R/W	M<Ohm>		
LastCalDate	40064	Time2	2	R			
SensorDays	40066	Unsigned Integer	1	R/W	Day		
ElectrodeDays	40067	Unsigned Integer	1	R/W	Day		
ElectrodeStatus	40068	Unsigned Integer	1	R			0/1
SensorType	40069	Unsigned Integer	1	R			0/1
RejectFrequency	40070	Unsigned Integer	1	R/W			0/1
DeviceDriver	40071	Unsigned Integer	1	R			
DeviceDriver1	40072	Unsigned Integer	1	R			
DeviceDriver2	40073	Unsigned Integer	1	R			
DeviceDriver3	40074	Unsigned Integer	1	R			
DeviceDriver4	40075	Unsigned Integer	1	R			
CalWarningDays	40076	Unsigned Integer	1	R/W	Day		
SensorWarningDays	40077	Unsigned Integer	1	R/W	Day		
SensorADCCnts	40078	Integer	2	R			
TempADCCnts	40080	Integer	2	R			
EditTempValue	40082	Float	2	R/W	TempUnits		
EditTempMin	40084	Float	2	R			
EditTempMax	40086	Float	2	R			
ImpOnOff	40088	Unsigned Integer	1	R/W			0/1
ImpedActCorr	40089	Float	2	R/W			
ImpedActCnts	40091	Float	2	R			
ImpedRefCorr	40093	Float	2	R/W			
ImpedRefCnts	40095	Float	2	R			
ActLoLimit	40097	Float	2	R/W	M<Ohm>		
ActHiLimit	40099	Float	2	R/W	M<Ohm>		
RefLoLimit	40101	Float	2	R/W	M<Ohm>		
RefHiLimit	40103	Float	2	R/W	M<Ohm>		
SensorName8	40105	String	8	R	M<Ohm>		
BootVersion	40113	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