Modbus Register
TU5400 sc

V 1.43

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Name	Register	Data Type	Length	Access Mode	Discrete Range	Min / Max	Description
TURBIDITY FNU / FTU / NTU / TEF	40001	Float	2	R	FNU	TRB	
TURBIDITY PSL	40001	Float	2	R	MEAS UNIT5400 DEG	TRB	
TURBIDITY mNTU / mFNU	40003	Float	2	R	mNTU	TRB	
TURBIDITY EBC	40005	Float	2	R	EBC	TRB	
RSD	40007	Float	2	R	%		
FLOW RATE	40009	Float	2	R	L /min		
TURBIDITY MIN	40012	Float	2	R			
TURBIDITY MAX	40014	Float	2	R			
EDITED NAME	40021	String	8	R/W			
RESPONSE TIME	40029	Unsigned Integer	1	R/W	s		
MEAS UNIT 5400	40030	Unsigned Integer	1	R/W			U7/6/8/9/20/41/42
MEAS UNIT5400 DEG	40030	Unsigned Integer	1	R/W			60
SET RESOLUTION	40031	Unsigned Integer	1	R/W			0/1
BUBBLE REJECT	40032	Unsigned Integer	1	R/W			1/0
LOGGER INTERVAL	40033	Unsigned Integer	1	R/W			0/1/2/3/4/5/6/7
BUTTON FUNCTION	40034	Unsigned Integer	1	R/W			0/1/2/3/4
FLOW SENSOR	40037	Unsigned Integer	1	R/W			1/0
CLEANING UNIT	40038	Unsigned Integer	1	R/W			1/0
CHECK INTERVAL	40039	Unsigned Integer	1	R/W			0/1/2/3/4/5/6
SENSITIVITY	40040	Unsigned Integer	1	R/W			0/1
CLEANING INTERVAL	40041	Unsigned Integer	1	R/W			0/1/2/3/4
CLEANING REMINDER	40042	Unsigned Integer	1	R/W			1/0
CLEANING LEVEL	40043	Unsigned Integer	1	R/W			1/0
THRESHOLD NTU	40044	Float	2	R/W	NTU	TRB	
THRESHOLD PSL	40046	Float	2	R/W	DEG	TRB	
OUTPUT DELAY	40051	Unsigned Integer	1	R/W	s		
ACM SOFT VERSION	40052	Unsigned Integer	1	R			
CALIBRATION CURVE	40053	Unsigned Integer	1	R/W			0/1/2
CALIBRATION RANGE	40054	Unsigned Integer	1	R/W			0/1
COUNT OF CALIBRATION POINTS	40055	Unsigned Integer	1	R/W			
VERIFY AFTER CAL	40056	Unsigned Integer	1	R/W			1/0
CALIBRATION MENU GUIDED	40057	Unsigned Integer	1	R/W			1/2/0

Name	Register	Data Type	Length	Access Mode	Discrete Range	Min / Max	Description
SET OUTMODE CALIBRATION	40058	Unsigned Integer	1	R/W			0/1/2
CALIBRATION REMINDER	40059	Unsigned Integer	1	R/W			0/1/2/3/4
VERIFICATION MENU GUIDED	40095	Unsigned Integer	1	R/W			1/2/0
SET OUTMODE VERIFICATION	40096	Unsigned Integer	1	R/W			0/1/2
VERIFICATION INTERVALL	40097	Unsigned Integer	1	R/W			0/1/2/3/4
VERIFICATION STANDARD NTU	40098	Float	2	R/W	NTU		
ACCEPT RANGE VALUE	40100	Float	2	R/W	NTU		
ACCEPT RANGE %	40102	Unsigned Integer	1	R/W	%		
ACCEPT RANGE UNIT	40103	Unsigned Integer	1	R/W	%		U7/10/60
SET OUTMODE MNT/TEST	40115	Unsigned Integer	1	R/W			0/1/2
SERIAL NUMBER	40116	String	6	R/W			
PROGRAM	40122	Float	2	R			
BOOTPROGRAM	40124	Float	2	R			
STRUCTURE	40126	String	3	R			
PROGRAM AU	40131	Unsigned Integer	1	R			
SERIAL NUMBER AU	40132	Unsigned Integer	2	R/W			
SER NO PCB AU	40134	Unsigned Integer	2	R/W			
SER NO LASER	40136	Unsigned Integer	2	R/W			
VIAL CONDENSATION STATE	40139	Unsigned Integer	1	R			0/1/2/3
VIAL CONDITION STATE	40140	Unsigned Integer	1	R			0/1/2/3
VIAL CONDENSATION	40141	Integer	1	R	%		
VIAL CONDITION	40142	Integer	1	R	%		
TOTAL TIME SENSOR	40177	Unsigned Integer	1	R	days		
WIPER REPLACE	40178	Unsigned Integer	1	R	Counts		
VIAL DATE	40179	Time2	2	R	Counts		
VIAL CLEANING DATE	40181	Time2	2	R	Counts		
CALIBRATION	40183	Time2	2	R	Counts		
VERIFICATION	40185	Time2	2	R	Counts		
FACTORY SERVICE	40187	Time2	2	R	Counts		
DESICCANT TIME	40189	Unsigned Integer	1	R	days		
LOAD	40190	Unsigned Integer	1	R	%		
PUMP TIME	40191	Unsigned Integer	2	R	h		
VIAL PRESENT	40193	Unsigned Integer	1	R			0/1

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Name	Register	Data Type	Length	Access Mode	Discrete Range	Min / Max	Description
LID TYPE	40194	Unsigned Integer	1	R			0/1/2
MEAS RAW	40195	Float	2	R	nA		
REF RAW	40197	Float	2	R	nA		
HEATER	40199	Float	2	R	C		
RATIO P/L	40209	Unsigned Integer	1	R	%		
HUMIDITY	40210	Float	2	R	%		
TEMP CONDENS	40212	Float	2	R	C		
SET POINT	40214	Unsigned Integer	1	R	%		
RATIO P/L WEEK	40219	Unsigned Integer	1	R	%		

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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