

# 48iQ, 410iQ, 410iQHL - 118208-00

## MODBUS Register Table

Rev AB  
V 01.06.14.34444

EXT MODBUS	TYPE	DEFAULT	MINIMUM	MAXIMUM	UNITS	PRECISION	DESCRIPTION
1	float	0					Auto Range Mode Concentration(Basic Units ppb or ug/m3 for Logging and Protocols)
3	float	0			Basic Units		Single/Auto Low/Dual Low Range Concentration(Basic Units ppb or ug/m3 for Logging and Protocols)
5	float	0			Basic Units		Auto High/Dual High Range Concentration(Basic Units ppb or ug/m3 for Logging and Protocols)
7	unsigned16	0	0	1			Auto Range Status0 = Low Range1 = High Range
11	float					6	Single/Low Range S/R
13	float					6	Hi Range S/R
15	float	25			degC	1	Instrument Temperature
17	float				degC		Bench Temperature
25	float	750	500	1000	mmHg	1	Bench Pressure (mmHg)
27	float	0			L/min	3	Sample Flow (L/min)
29	float					1	Reference Intensity
31	float				RPM		Filter Wheel Motor Speed
55	float				Volts		IR Detector Bias Monitor
63	float	0	0	100	%		Scrubber Efficiency
91	float	0			Basic Units		User Calibration Background Concentration value in basic units (ppb or ug/m3)
501	string		6	9	characters		Formatted Time: HH:MM(:SS)
506	string		9	11	characters		Formatted Date: MM/DD/(YY)YY
512	unsigned16	0			sec		Last Calibration Time (Seconds from 01-Jan-1970)
513	unsigned16	0			sec		Previous Calibration Time (Seconds from 01-Jan-1970)
514	unsigned32	1	0				General Alarm Flag
516	string	empty	0	14	characters		Serial Number
524	string	empty	0	32	characters		Firmware Version
540	string	iQSeries	0	16	characters		HostName
548	unsigned32	1	0				General Warning Flag
550	unsigned16	0	0	1			Instrument Warmup Flag set to 1 initially if warm up is enabled and either after all the module alarms are cleared up or after 2 hours set to 0
551	integer16	0	0	1			Bench Alarm Count

552	integer16	0	0	1			Concentration Alarm Count for Conc/AutoZero/AutoSpan
553	integer16	0	0	1			Concentration Alarm Status
554	integer16	0	0	1			Pressure Alarm Status
555	integer16	0	0	1			Flow Alarm Status
556	integer16	0	0	1			Instrument Temperature Alarm Status
557	integer16	0	0	1			Auto Zero Cal/Check Alarm Status
558	integer16	0	0	1			Auto Span Cal/Check Alarm Status
559	string	0	0	11			Single/Auto Low/Dual Low Range Concentration Reading (String in User Selected Units)
565	string	0	0	11			Auto High/Dual High Range Concentration Reading (String in User Selected Units)
571	string	0	0	11			Single/Auto Low/Dual Low Range Corrected Concentration Reading (String in User Selected Units)
577	string	0	0	11			Auto High and Dual High Range Corrected Concentration Reading (String in User Selected Units)
583	float	0				Basic Units	Single/Auto Low/Dual Low Range corrected Concentration(Basic Units ppb or ug/m3 for Logging and Protocols)
585	float	0				Basic Units	Auto High/Dual High Range corrected Concentration(Basic Units ppb or ug/m3 for Logging and Protocols)
587	float	0					Auto Range Mode corrected Concentration(Basic Units ppb or ug/m3 for Logging and Protocols)
589	integer16	0	0	1			Reference Alarm Status
590	integer16	0	0	1			Scrubber Gas Concentration Alarm
591	integer16	0	0	1			Scrubber Efficiency Alarm
592	integer16	0	0	1			Scrubber Test Done Alarm
593	integer16	0	0	3			Scrubber Eff Alarms Count
594	float	0				Basic Units	Single/Lo Range Virtual Concentration(Basic Units for UI calibration screens only)
596	float	0				Basic Units	Hi Range Virtual Concentration(Basic Units for UI calibration screens only)
601	integer16	1	0				Number of active NDIR Bench Alarms

602	unsigned16	0	0	65535			Fault 0 Bit-packed faults:Bit0=Bench temp thermistor openBit1=Bench temp thermistor shortBit2=Bench temp more that 1C below setpointBit3=Bench temp more than 1C above setpointBit4=Motor speed too lowBit5=Motor speed too highBit6=Ambient temperature too lowBit7=Ambient temperature too highBit8=Ambient temp thermistor openBit9=Ambient temp thermistor shortBit10=IR source current lowBit11=IR source current highBit12=IR detector bias lowBit13=IR detetor bias highBit14=Ambient heater fan failureBit15=Case fan failure
603	unsigned16	0	0	65535			Fault 3 Bit-packed faults:Bit0..6=N/A Bit7 = Board communication failureBit8 = Information block set defaultBit9 = Infomation block corruptedBit10 = Calibration block set defaultBit11 = Calibration block corruptedBit12..13 =N/ABit14 = Power Supply FailureBit15 = General when any faults detected
604	unsigned16	0	0	65535			Calibration Status0 = Calibration IdleAmbient Calibration Steps1 = Calibrate ambient offset start2 = Calibrate ambient offset stop3 = Calibrate ambient offset default4 = Calibrate ambient offset done Bench Calibration Steps5 = Calibrate bench offset start6 = Calibrate bench offset stop7 = Calibrate bench offset default8 = Calibrate bench offset done Calculate Initial S/RNote: No target needed9 = Calculate initial S/R start10 = Calculate initial S/R stop11 = Calculate initial S/R default12 = Calculate initial S/R done Detector Gain Adjustment13 = Detector gain adjust start14 = Detector gain adjust stop15 = Detector gain adjust default16 = Detector gain adjust done
605	unsigned16	0	0	65535			Bit-packed faults (MSB):Bit0..15=N/A
606	integer16	0	0	1			Bench Temp Thermistor Open Alarm Status
607	integer16	0	0	1			Bench Temp Thermistor Short Alarm Status
608	integer16	0	0	1			Bench Temp 1C below setpoint Alarm Status
609	integer16	0	0	1			Bench Temp 1C above setpoint Alarm Status

610	integer16	0	0	1			Bench Motor Speed too low Alarm Status
611	integer16	0	0	1			Bench Motor Speed too high Alarm Status
612	integer16	0	0	1			Bench Amb Temp Thermistor Open Alarm Status
613	integer16	0	0	1			Bench Amb Temp Thermistor Short Alarm Status
614	integer16	0	0	1			Bench IR Source Current Low Alarm Status
615	integer16	0	0	1			Bench IR Source Current High Alarm Status
616	integer16	0	0	1			Bench IR Detector Bias Low Alarm Status
617	integer16	0	0	1			Bench IR Detector Bias High Alarm Status
618	integer16	0	0	1			Communication Alarm Status
619	integer16	0	0	1			Power Supply Alarm Status
620	integer16	0	0	1			Instrument ambient temp too low alarm status
621	integer16	0	0	1			Instrument ambient temp too high alarm status
622	integer16	0	0	1			Ambient heater fan failure status
623	integer16	0	0	1			Case fan failure status
651	integer16	1	0				Pressure Alarm Status
652	unsigned16	0	0	65535			Pressure Faults 3: Bit7 - Board Communication FailureBit14 - Power supplies Bit15 - General when any faults detected
653	unsigned16	0	0	65535			Pressure Cal Status0 - Do nothing1 - Reset all values to defaults2 - Update high point sensor 13 - Update low point sensor 14 - Update high point sensor 25 - Update low point sensor 26 - Update high point sensor 37 - Update low point sensor 391 - Reset all values to defaults done92 - Update high point sensor 1 done93 - Update low point sensor 1 done94 - Update high point sensor 2 done95 - Update low point sensor 2 done96 - Update high point sensor 3 done97 - Update low point sensor 3 done

654	unsigned16	0	0	65535			Pressure Calibration Faults 1 (LSB): Bit 0-1: High point sensor 1Offset is: 00=Ok 01=user input out of range 10=measurement out of range 11=No calBit2-3: Low point sensor 1Offset is: 00=Ok 01=user input out of range10=measurement out of range 11=No calBit4-5: High point sensor 2Offset is: 00=Ok 01=user input out of range10=measurement out of range 11=No calBit6-7: Low point sensor 2Offset is: 00=Ok 01=user input out of range10=measurement out of range 11=No calBit8-9: High point sensor 3Offset is: 00=Ok 01=user input out of range10=measurement out of range 11=No calBit10-11: Low point sensor 3Offset is: 00=Ok 01=user input out of range10=measurement out of range 11=No calBit12-15=N/A
655	integer16	0	0	1			Flow/Pressure Communication Alarm Status
656	integer16	0	0	1			Flow/Pressure Power Supply Alarm Status
751	integer16	1	0				PSB Alarms Count
752	unsigned16	0	0	65535			Zero Gas Alicat's MFC Status Faults 0:Bit0 = Temperature Overflow(TOV)BIT1 = Temperature Underflow(TOV)BIT2 = Volumetric Overflow (VOV)BIT3 = Volumetric Underflow (VOV)BIT4 = Mass Overflow (MOV)Bit5 = Mass Underflow (MOV)Bit6 = Pressure Overflow (POV)Bit7 = Totalizer Overflow (OVR)Bit8 = PID Loop in Hold (HLD)Bit9 = ADC Error (ADC)Bit10= PID Exhaust (EXH)Bit11= Over Pressure Limit (OPL)Bit12= Flow Overflow during totalize (TMF)Bit13= Measurement was aborted

753	unsigned16	0	0	65535		Span Gas #1 Alicat's MFC Status Faults 1:Bit0 = Temperature Overflow(TOV)BIT1 = Temperature Underflow(TOV)BIT2 = Volumetric Overflow (VOV)BIT3 = Volumetric Underflow (VOV)BIT4 = Mass Overflow (MOV)Bit5 = Mass Underflow (MOV)Bit6 = Pressure Overflow (POV)Bit7 = Totalizer Overflow (OVR)Bit8 = PID Loop in Hold (HLD)Bit9 = ADC Error (ADC)Bit10= PID Exhaust (EXH)Bit11= Over Pressure Limit (OPL)Bit12= Flow Overflow during totalize (TMF)Bit13= Measurement was aborted
754	unsigned16	0	0	65535		Span Gas #2 (optional) Alicat's MFC StatusFaults 2:Bit0 = Temperature Overflow(TOV)BIT1 = Temperature Underflow(TOV)BIT2 = Volumetric Overflow (VOV)BIT3 = Volumetric Underflow (VOV)BIT4 = Mass Overflow (MOV)Bit5 = Mass Underflow (MOV)Bit6 = Pressure Overflow (POV)Bit7 = Totalizer Overflow (OVR)Bit8 = PID Loop in Hold (HLD)Bit9 = ADC Error (ADC)Bit10= PID Exhaust (EXH)Bit11= Over Pressure Limit (OPL)Bit12= Flow Overflow during totalize (TMF)Bit13= Measurement was aborted
755	unsigned16	0	0	65535		PSB Board most significant word Faults 3:Bit0..6=N/ABIT7=Board communication failureBIT8=Reset info block to defaultBIT9=Verify info block failBIT10=Reset calibration block to defaultBIT11=Verify calibration block failBit 12 - 13 = N/ABit14=Power Supply FailureBit15=General when any faults detected
756	unsigned16	0	0	65535		Status bits from STEP board 1:Bit Description0 Channel A 0=OK 1=Error (current>4A)1 Channel B 0=OK 1=Error (current>4A)2 Channel C 0=OK 1=Error (current>4A)3 Channel D 0=OK 1=Error (current>4A)4 Channel A 0=Off 1=On5 Channel B 0=Off 1=On6 Channel C 0=Off 1=On7 Channel D 0=Off 1=On8-11 5V Supply 0=Fail 0xa=Good12-15 24V Supply 0=Fail 0xa=Good

757	unsigned16	0	0	65535		Status bits from STEP board 2:Bit Description0 Channel A 0=OK 1=Error (current>4A)1 Channel B 0=OK 1=Error (current>4A)2 Channel C 0=OK 1=Error (current>4A)3 Channel D 0=OK 1=Error (current>4A)4 Channel A 0=Off 1=On5 Channel B 0=Off 1=On6 Channel C 0=Off 1=On7 Channel D 0=Off 1=On8-11 5V Supply 0=Fail 0xa=Good12-15 24V Supply 0=Fail 0xa=Good
758	unsigned16	0	0	65535		Status bits from STEP board 3:Bit Description0 Channel A 0=OK 1=Error (current>4A)1 Channel B 0=OK 1=Error (current>4A)2 Channel C 0=OK 1=Error (current>4A)3 Channel D 0=OK 1=Error (current>4A)4 Channel A 0=Off 1=On5 Channel B 0=Off 1=On6 Channel C 0=Off 1=On7 Channel D 0=Off 1=On8-11 5V Supply 0=Fail 0xa=Good12-15 24V Supply 0=Fail 0xa=Good
759	unsigned16	0	0	65535		Status bits from STEP board 4:Bit Description0 Channel A 0=OK 1=Error (current>4A)1 Channel B 0=OK 1=Error (current>4A)2 Channel C 0=OK 1=Error (current>4A)3 Channel D 0=OK 1=Error (current>4A)4 Channel A 0=Off 1=On5 Channel B 0=Off 1=On6 Channel C 0=Off 1=On7 Channel D 0=Off 1=On8-11 5V Supply 0=Fail 0xa=Good12-15 24V Supply 0=Fail 0xa=Good
760	integer16	0	0	1		PSB Communication Status
761	integer16	0	0	1		PSB Power Supply Status
762	integer16	0	0	1		Channel 1 Error from STEP board
763	integer16	0	0	1		Channel 2 Error from STEP board
764	integer16	0	0	1		Channel 3 Error from STEP board
765	integer16	0	0	1		Channel 4 Error from STEP board
766	integer16	0	0	1		STEP 1 5V Error
767	integer16	0	0	1		STEP 1 24V Error
768	integer16	0	0	1		Channel 1 Error from STEP board
769	integer16	0	0	1		Channel 2 Error from STEP board
770	integer16	0	0	1		Channel 3 Error from STEP board
771	integer16	0	0	1		Channel 4 Error from STEP board
772	integer16	0	0	1		STEP 2 5V Error
773	integer16	0	0	1		STEP 2 24V Error
774	integer16	0	0	1		Channel 1 Error from STEP board
775	integer16	0	0	1		Channel 2 Error from STEP board

776	integer16	0	0	1		Channel 3 Error from STEP board
777	integer16	0	0	1		Channel 4 Error from STEP board
778	integer16	0	0	1		STEP 3 5V Error
779	integer16	0	0	1		STEP 3 24V Error
780	integer16	0	0	1		Channel 1 Error from STEP board
781	integer16	0	0	1		Channel 2 Error from STEP board
782	integer16	0	0	1		Channel 3 Error from STEP board
783	integer16	0	0	1		Channel 4 Error from STEP board
784	integer16	0	0	1		STEP 4 5V Error
785	integer16	0	0	1		STEP 4 24V Error
801	float	0				Analog Input 1 Reading
803	float	0				Analog Input 2 Reading
805	float	0				Analog Input 3 Reading
807	float	0				Analog Input 4 Reading
809	integer16	1	0			Analog Alarms
810	unsigned16	0	0	65535		Analog IO Faults 0: Bit-packed faults:Bit0 = 15V Status Diagnostic Failed Bit1 = Negative 15V Status Diagnostic Failed Bit2 = 5V Status Diagnostic Failed Bit3 = 3dot3V Status Diagnostic Failed Bit4 = 5V Reference Status Diagnostic Failed Bit5..15 = N/A
811	unsigned16	0	0	65535		Analog IO Faults 2: Bit-packed faults:Bit0 = Voltage Output Channel 1 Failed Bit1 = Voltage Output Channel 2 Failed Bit2 = Voltage Output Channel 3 Failed Bit3 = Voltage Output Channel 4 Failed Bit4 = Voltage Output Channel 5 Failed Bit5 = Voltage Output Channel 6 Failed Bit6 = Current Output Channel 1 Failed Bit7 = Current Output Channel 2 Failed Bit8 = Current Output Channel 3 Failed Bit9 = Current Output Channel 4 Failed Bit10 = Current Output Channel 5 Failed Bit11 = Current Output Channel 6 Failed Bit12 = AD5755 Temperautre Too HighBit13 = AD5755-1 SPI Communications AlertBit14 = AD5755-2 SPI Communications Alert Bit15 = AD5755-3 SPI Communications Alert



812	unsigned16	0	0	65535		<p>Analog IO Faults 3: Bit-packed faults:Bit0..6 = N/ABit7 = Board Communication FailureBit8 = Information block set defaultBit9 = Information block corruptedBit10 = Calibration block set defaultBit11 = Calibration block corruptedBit12..13 = N/ABit14 = Power Supply FailureBit15 = General when any faults detected</p>
813	unsigned16	0	0	65535		<p>Analog IO Calibration Status: 0 = Calibration IdleVoltage Input Calibration 1 = Calculate voltage input start2 = Calculate voltage input stop3 = Calculate voltage input default4 = Calibration voltage input done Voltage Output Calibration 5 = Calculate voltage output start6 = Calculate voltage output stop7 = Calculate voltage output default8 = Calibration voltage output done Current Output Calibration 9 = Calculate current output start10 = Calculate current output stop11 = Calculate current output default12 = Calibration voltage output done</p>
814	unsigned16	0	0	65535		<p>Analog IO Cal Faults 1: Bit-packed faults for voltage input calibration:Bit0-1 = Channel 1 voltage input calibration failureOffset is: 00 = Ok 01 = Low 10 = High 11 = No calBit2-3 = Channel 2 voltage input calibration failureOffset is: 00 = Ok 01 = Low 10 = High 11 = No calBit4-5 = Channel 3 voltage input calibration failureOffset is: 00 = Ok 01 = Low 10 = High 11 = No calBit6-7 = Channel 4 voltage input calibration failureOffset is: 00 = Ok 01 = Low 10 = High 11 = No calBit8..15 = N/A</p>

815	unsigned16	0	0	65535		<p>Analog IO Cal Faults 2: Bit-packed faults for voltage output 5V range calibration:Bit0-1 = Channel 1 voltage output calibration failureOffset is: 00 = Ok 01 = Low 10 = High 11 = No calBit2-3 = Channel 2 voltage output calibration failureOffset is: 00 = Ok 01 = Low 10 = High 11 = No calBit4-5 = Channel 3 voltage output calibration failureOffset is: 00 = Ok 01 = Low 10 = High 11 = No calBit6-7 = Channel 4 voltage output calibration failureOffset is: 00 = Ok 01 = Low 10 = High 11 = No calBit8-9 = Channel 5 voltage output calibration failureOffset is: 00 = Ok 01 = Low 10 = High 11 = No calBit10-11 = Channel 6 voltage output calibration failureOffset is: 00 = Ok 01 = Low 10 = High 11 = No calBit12..15=N/A</p>
816	unsigned16	0	0	65535		<p>Analog IO Cal Faults 3: Bit-packed faults for voltage output 10V range calibration:Bit0-1 = Channel 1 voltage output calibration failureOffset is: 00 = Ok 01 = Low 10 = High 11 = No calBit2-3 = Channel 2 voltage output calibration failureOffset is: 00 = Ok 01 = Low 10 = High 11 = No calBit4-5 = Channel 3 voltage output calibration failureOffset is: 00 = Ok 01 = Low 10 = High 11 = No calBit6-7 = Cahnnel 4 voltage output calibration failureOffset is: 00 = Ok 01 = Low 10 = High 11 = No calBit8-9 = Channel 5 voltage output calibration failureOffset is: 00 = Ok 01 = Low 10 = High 11 = No calBit10-11 = Channel 6 voltage output calibration failureOffset is: 00 = Ok 01 = Low 10 = High 11 = No calBit12..15=N/A</p>

817	unsigned16	0	0	65535			Analog IO Cal Faults 4: Bit-packed faults for current output calibration:Bit0-1= Channel 1 current output calibration failureOffset is: 00 = Ok 01 = Low 10 = High 11 = No calBit2-3= Channel 2 current output calibration failureOffset is: 00 = Ok 01 = Low 10 = High 11 = No calBit4-5= Channel 3 current output calibration failureOffset is: 00 = Ok 01 = Low 10 = High 11 = No calBit6-7= Channel 4 current output calibration failureOffset is: 00 = Ok 01 = Low 10 = High 11 = No calBit8-9= Channel 5 current output calibration failureOffset is: 00 = Ok 01 = Low 10 = High 11 = No calBit10-11= Channel 6 current output calibration failureOffset is: 00 = Ok 01 = Low 10 = High 11 = No calBit12..15=N/A
818	integer16	0	0	1			Analog IO Voltage Output Channel 1 Alarm Status
819	integer16	0	0	1			Analog IO Voltage Output Channel 2 Alarm Status
820	integer16	0	0	1			Analog IO Voltage Output Channel 3 Alarm Status
821	integer16	0	0	1			Analog IO Voltage Output Channel 4 Alarm Status
822	integer16	0	0	1			Analog IO Voltage Output Channel 5 Alarm Status
823	integer16	0	0	1			Analog IO Voltage Output Channel 6 Alarm Status
824	integer16	0	0	1			Analog IO Current Output Channel 1 Alarm Status
825	integer16	0	0	1			Analog IO Current Output Channel 2 Alarm Status
826	integer16	0	0	1			Analog IO Current Output Channel 3 Alarm Status
827	integer16	0	0	1			Analog IO Current Output Channel 4 Alarm Status
828	integer16	0	0	1			Analog IO Current Output Channel 5 Alarm Status
829	integer16	0	0	1			Analog IO Current Output Channel 6 Alarm Status
830	integer16	0	0	1			Analog IO Chip Temperatures Alarm Status
831	integer16	0	0	1			Analog IO Chip 1 Communication Alarm Status
832	integer16	0	0	1			Analog IO Chip 2 Communication Alarm Status
833	integer16	0	0	1			Analog IO Chip 3 Communication Alarm Status
834	integer16	0	0	1			Analog IO Communication Alarm Status

835	integer16	0	0	1			Analog IO Power Supply Alarm Status
951	integer16	1	0				Digital IO Alarms
952	unsigned16	0	0	65535			Digital IO Board fault register 1 least significant word Bit 0 = Solenoid1 above 500mA shut down and alarm Bit 1 = Solenoid1 below 10mA and output is on Bit 2 = Solenoid2 above 500mA shut down and alarm Bit 3 = Solenoid2 below 10mA and output is on Bit 4 = Solenoid3 above 500mA shut down and alarm Bit 5 = Solenoid3 below 10mA and output is on Bit 6 = Solenoid4 above 500mA shut down and alarm Bit 7 = Solenoid4 below 10mA and output is on Bit 8 = Solenoid5 above 500mA shut down and alarm Bit 9 = Solenoid5 below 10mA and output is on Bit 10 = Solenoid6 above 500mA shut down and alarm Bit 11 = Solenoid6 below 10mA and output is on Bit 12 = Solenoid7 above 500mA shut down and alarm Bit 13 = Solenoid7 below 10mA and output is on Bit 14 = Solenoid8 above 500mA shut down and alarm Bit 15 = Solenoid8 below 10mA and output is on
953	unsigned16	0	0	65535			Digital IO Board fault register 2
954	unsigned16	0	0	65535			Digital IO Board fault register 4 most significant word Bit 0..9 = N/A Bit 7 = Board Communication Failure Bit 14 = Power Supply Bit 15 = General when any faults detected
955	unsigned16	0	0	1			Digital IO External Alarm 1
956	unsigned16	0	0	1			Digital IO External Alarm 2
957	unsigned16	0	0	1			Digital IO External Alarm 3
958	unsigned16	0	0	255			Reset the solenoid faults Bit 0 = 24V Switchable Output 0 Bit 1 = 24V Switchable Output 1 Bit 2 = 24V Switchable Output 2 Bit 3 = 24V Switchable Output 3 Bit 4 = 24V Switchable Output 4 Bit 5 = 24V Switchable Output 5 Bit 6 = 24V Switchable Output 6 Bit 7 = 24V Switchable Output 7 Bit 8..15 = N/A
959	integer16		0	1			Digital I/O solenoid1 above 500mA alarm
960	integer16		0	1			Digital I/O solenoid1 below 10mA alarm
961	integer16		0	1			Digital I/O solenoid2 above 500mA alarm
962	integer16		0	1			Digital I/O solenoid2 below 10mA alarm

963	integer16		0	1		Digital I/O solenoid3 above 500mA alarm
964	integer16		0	1		Digital I/O solenoid3 below 10mA alarm
965	integer16		0	1		Digital I/O solenoid4 above 500mA alarm
966	integer16		0	1		Digital I/O solenoid4 below 10mA alarm
967	integer16		0	1		Digital I/O solenoid5 above 500mA alarm
968	integer16		0	1		Digital I/O solenoid5 below 10mA alarm
969	integer16		0	1		Digital I/O solenoid6 above 500mA alarm
970	integer16		0	1		Digital I/O solenoid6 below 10mA alarm
971	integer16		0	1		Digital I/O solenoid7 above 500mA alarm
972	integer16		0	1		Digital I/O solenoid7 below 10mA alarm
973	integer16		0	1		Digital I/O solenoid8 above 500mA alarm
974	integer16		0	1		Digital I/O solenoid8 below 10mA alarm
975	integer16		0	1		Digital I/O power supply alarm
976	integer16	0	0	1		Digital IO Communication Alarm
977	unsigned16	0	0	1		Digital IO Relay Test Mode Alarm
978	unsigned16	0	0	1		Digital IO Solenoid Test Mode Alarm
1001	integer16	0	-99	60		Maintenance History Calculated Months Left Optical Bench Module
1002	integer16	0	-99	60		Maintenance History Calculated Months Left IR Source
1003	integer16	0	-99	60		Maintenance History Calculated Months Left Filter Wheel
1004	integer16	0	-99	60		Maintenance History Calculated Months Left Detector
1005	integer16	0	-99	60		Maintenance History Calculated Months Left Chopper Motor
1006	integer16	0	-99	60		Maintenance History Calculated Months Left Optical Switch
1007	integer16	0	-99	60		Maintenance History Calculated Months Left Flow System
1008	integer16	0	-99	60		Maintenance History Calculated Months Left Capillaries
1009	integer16	0	-99	60		Maintenance History Calculated Months Left Pump
1010	integer16	0	-99	60		Maintenance History Calculated Months Left DC Power Supply
1011	integer16	0	-99	60		Maintenance History Calculated Months Left Foam Fan Filter
1012	integer16	0	-99	60		Maintenance History Calculated Months Left System Components
1013	integer16	0	-99	60		Maintenance History Calculated Months Left Purafil

1014	integer16	0	-99	60			Maintenance History Calculated Months Left Charcoal
1015	integer16	0	-99	60			Maintenance History Calculated Months Left Dri-Rite
1016	integer16	0	-99	60			Maintenance History Calculated Months Left Scrubber
1017	integer16	0	-99	60			Maintenance History Calculated Months Left Scrubber Efficiency Check
1018	integer16	0	-99	60			Maintenance History Calculated Months Left Permeation Dryer
1019	integer16	0	-99	60			Maintenance History Calculated Months Left 19
1020	integer16	0	-99	60			Maintenance History Calculated Months Left 20
1021	integer16	0	-99	60			Maintenance History Calculated Months Left 21
1022	integer16	0	-99	60			Maintenance History Calculated Months Left 22
1023	integer16	0	-99	60			Maintenance History Calculated Months Left 23
1024	integer16	0	-99	60			Maintenance History Calculated Months Left 24
1025	integer16	0	-99	60			Maintenance History Calculated Months Left 25
1026	integer16	0	-99	60			Maintenance History Calculated Months Left 26
1027	integer16	0	-99	60			Maintenance History Calculated Months Left 27
1028	integer16	0	-99	60			Maintenance History Calculated Months Left 28
1029	integer16	0	-99	60			Maintenance History Calculated Months Left 29
1030	integer16	0	-99	60			Maintenance History Calculated Months Left 30
1031	integer16	0	-99	60			Maintenance History Calculated Months Left 31
1032	integer16	0	-99	60			Maintenance History Calculated Months Left 32
1033	integer16	0	-99	60			Maintenance History Calculated Months Left 33
1034	integer16	0	-99	60			Maintenance History Calculated Months Left 34
1035	integer16	0	-99	60			Maintenance History Calculated Months Left 35
1036	integer16	0	-99	60			Maintenance History Calculated Months Left 36
1037	integer16	0	-99	60			Maintenance History Calculated Months Left 37
1038	integer16	0	-99	60			Maintenance History Calculated Months Left 38
1039	integer16	0	-99	60			Maintenance History Calculated Months Left 39
1040	integer16	0	-99	60			Maintenance History Calculated Months Left 40
1041	integer16	0	-99	60			Maintenance History Calculated Months Left 41

1042	integer16	0	-99	60			Maintenance History Calculated Months Left 42
1043	integer16	0	-99	60			Maintenance History Calculated Months Left 43
1044	integer16	0	-99	60			Maintenance History Calculated Months Left 44
1045	integer16	0	-99	60			Maintenance History Calculated Months Left 45
1046	integer16	0	-99	60			Maintenance History Calculated Months Left 46
1047	integer16	0	-99	60			Maintenance History Calculated Months Left 47
1048	integer16	0	-99	60			Maintenance History Calculated Months Left 48
1049	integer16	0	-99	60			Maintenance History Calculated Months Left 49
1050	integer16	0	-99	60			Maintenance History Calculated Months Left 50
1051	unsigned16	0	0	1			Maintenance History Alert
1101	string		0	300			Predictive Diagnostics Alerts List
1301	integer16	0	0	1			Predictive Diagnostic Alert Filter Wheel
1302	integer16	0	0	1			Predictive Diagnostic Alert Sample Pump
1303	integer16	0	0	1			Predictive Diagnostic Alert Capillary
1304	integer16	0	0	1			Predictive Diagnostic Alert Flow Path
1305	integer16	0	0	1			Predictive Diagnostic Alert IR Source
1306	integer16	0	0	1			Predictive Diagnostic Alert Sample Valve
1307	integer16	0	0	1			Predictive Diagnostic Alert Zero Valve
1308	integer16	0	0	1			Predictive Diagnostic Alert Span Valve
1309	integer16	0	0	1			Predictive Diagnostic Alert Sample/Zero Valve
1310	integer16	0	0	1			Predictive Diagnostic Alert 10
1311	integer16	0	0	1			Predictive Diagnostic Alert 11
1312	integer16	0	0	1			Predictive Diagnostic Alert 12
1313	integer16	0	0	1			Predictive Diagnostic Alert 13
1314	integer16	0	0	1			Predictive Diagnostic Alert 14
1315	integer16	0	0	1			Predictive Diagnostic Alert 15
1316	integer16	0	0	1			Predictive Diagnostic Alert 16
1317	integer16	0	0	1			Predictive Diagnostic Alert 17
1318	integer16	0	0	1			Predictive Diagnostic Alert 18
1319	integer16	0	0	1			Predictive Diagnostic Alert 19
1320	integer16	0	0	1			Predictive Diagnostic Alert 20
1321	unsigned16	0	0	1			Predictive Diagnostic Alerts
1851	integer16	0	0				Number of active oxygen alarms [if O2 Sensor installed]

1852	unsigned16	0	0	65535			Bit-packed O2 Faults 0:Bit 0...7=UnusedBit 8 = Ambient temp thermistor openBit9 = Ambient temp thermistor shortBit 10...15=Unused
1853	unsigned16	0	0	65535			Bit-packed O2 Faults 1:Bit0...3 = UnusedBit4 = 5 volts Fault.Bit5 = 3.3 volts Fault.Bit6 = 2.5 volts Reference Fault.Bit7= 24 volts Fault.Bit 8...15=Unused
1854	unsigned16	0	0	65535			Bit-packed O2 Faults 2:Bit0 = X - fail.Bit1 = E - fail.Bit 2 = B -fail.Bit 3 = C - fail.Bit 4 = S - fail.Bit 5 = M- fail.Bit 6 = O2 sensor not detected.Bi7...15 = Unused
1855	unsigned16	0	0	65535			Bit-packed O2 Faults 3:Bit0...6 = UnusedBit7 = Board communication failureBit8 = Information block set defaultBit9 = Information block corruptedBit10 = Calibration block set defaultBit11 = Calibration block corruptedBit12...13 =N/ABit14 =Power Supply FailureBit15 =General in any faults detected
1856	unsigned16	0	0				Calibration Status0 = Calibration IdleAmbient Calibration Steps1 = Cal Ambient offset start2 = Cal Ambient offset stop3 = Cal Ambient offset default4 = Cal Ambient offset doneO2 Calibration Steps5 = Factory Cal1 (Offset) Start6 = Factory Cal1 (Offset) Stop7 = Factory Cal1 (Offset) Done8= Factory Cal2 (Span) Start9= Factory Cal2 (Span) Stop10= Factory Cal2 (Span) Done11 = User Cal (Span) Start12 = User Cal (Span) Stop13 = User Cal (Span) Default14 = User Cal (Span) Done
1857	unsigned16	0	0				Bit-packed O2 Calibration Faults:Bit 0 = Factory Calibration failure.(verify for 'C' in errors received from Oxygen sensor module.Bit 1 = User Cal (Span) Fail. (Calculated Cal coefficient <0.5 or >2)Bit2-3 = Ambient temperature calibration failure. Offset is: 00=Ok 01=Lo 10=Hi 11=No cal
1859	float	0	-10	110	%	3	O2 Concentration [if O2 Sensor installed]
1861	float	0	-10	100	°C	1	O2 Temperature [if O2 Sensor installed]
1863	integer16	0	0	1			O2 Concentration Alarm Status [if O2 Sensor installed]
1864	integer16	0	0	1			O2 Thermistor Open Status [if O2 Sensor installed]



1865	integer16	0	0	1			O2 Thermistor short Status [if O2 Sensor installed]
1866	integer16	0	0	1			O2 Sensor Malfunction Status [if O2 Sensor installed]
1867	integer16	0	0	1			O2 Outside Operational Spec Status [if O2 Sensor installed]
1868	integer16	0	0	1			O2 Sensor Communication Fault Status [if O2 Sensor installed]
1869	integer16	0	0	1			O2 Sensor Calibration Fault Status [if O2 Sensor installed]
1870	integer16	0	0	1			O2 Photodiode Current Low Fault Status [if O2 Sensor installed]
1871	integer16	0	0	1			O2 Sensor not detected Fault Status [if O2 Sensor installed]
1872	integer16	0	0	1			O2 Board Communication Fault Status [if O2 Sensor installed]
1873	integer16	0	0	1			O2 Power Supply Fault Status [if O2 Sensor installed]
1874	integer16	0	0	1			O2 Sensor Communication Alarm Status [if O2 Sensor installed]
1875	unsigned16	0	0	1			Enable/disable the module
2251	unsigned16	0	0	1			Enable/Disable the Zero/Span valve module
2252	integer16	0	0	1			Trigger zero check or cal.
2253	integer16	0	0	1			Trigger span check or cal.
2254	integer16	0	0	1			Trigger purge
2255	integer16	0	0	1			Trigger Ozonator Level 1
2256	integer16	0	0	1			Trigger Ozonator Level 2
2257	integer16	0	0	1			Trigger Ozonator Level 3
2258	integer16	0	0	1			Trigger Ozonator Level 4
2259	integer16	0	0	1			Trigger Ozonator Level 5
2260	integer16	0	0	1			Trigger Ozonator Level 6
2301	integer16	0	0	4			0 = Mode OFF1 = Period Time2 = Dwell Time3 = Purge Time4 = Done
2351	unsigned16	0	0	1			Enable(1)/disable(0) the module
2352	integer16	0	0	4			i0 Reference Mode [48iQTL only]
2401	float	1	0.5	2		3	Single/Lo Range User Coef for CalculationsUpdate Modbus address 8404 to perform Manual or auto spanFor more details check 8404 description
2403	float	1	0.5	2		3	High Range User Coef for CalculationsUpdate Modbus address 8404 to perform Manual or auto spanFor more details check 8404 description
2405	float	1				3	Single/Lo Range User Coef for UI
2407	float	1				3	Hi Range User Coef for UI
2451	string	0.0.0.0	7	15	characters		Dynamic IP Address
2459	string	0.0.0.0	7	15	characters		Dynamic Subnet Mask
2467	string	0.0.0.0	7	15	characters		Dynamic Gateway Address
2475	string	00:00:00:00	17	17	characters		Wired MAC Address

2484	unsigned16	0	0	1			Ethernet Configuration Alarm Flag
2485	unsigned16	0	0	1			Ethernet IP Address Configuration Alarm Flag
2486	unsigned16	0	0	1			Ethernet Subnet Mask Configuration Alarm Flag
2487	unsigned16	0	0	1			Ethernet Gateway Configuration Alarm Flag
2488	unsigned16	0	0	1			Ethernet DNS Configuration Alarm Flag
2489	unsigned16	0	0	1			Ethernet DNS Configuration Alarm Flag
5158	string	0.0.0.0	7	15	characters		Wired DNS Address
5166	string	0.0.0.0	7	15	characters		Wired DNS Address 2
5174	unsigned16	0	0	1			Ethernet Configuration commit
5182	integer16	0	0	2			Date Format: 0=MM/DD/YYYY (US) 1=DD/MM/YYYY (EU)2=YYYY-MM-DD (ISO 8601)
5183	unsigned16	50	5	100	%		Screen Brightness
5184	unsigned16	0	0	1			Sleep Enable Status
5185	unsigned16	5	1	720	minutes		Sleep Timeout value in minutes
5186	unsigned16	0	0	23			Update clock time: Hours - set 5208 to 2(GUI) or 3(Modbus) - set desired time registers - set 5236 to 1 - set 5208 to 0
5187	unsigned16	0	0	59			Update clock time: Minutes - set 5208 to 2(GUI) or 3(Modbus) - set desired time registers - set 5236 to 1 - set 5208 to 0
5188	unsigned16	0	0	59			Update clock time: Seconds - set 5208 to 2(GUI) or 3(Modbus) - set desired time registers - set 5236 to 1 - set 5208 to 0
5189	unsigned16	1	1	12			Update clock time: Month - set 5208 to 2(GUI) or 3(Modbus) - set desired time registers - set 5236 to 1 - set 5208 to 0
5190	unsigned16	1	1	31			Update clock time: Day - set 5208 to 2(GUI) or 3(Modbus) - set desired time registers - set 5236 to 1 - set 5208 to 0
5191	unsigned16	1970	1970	2038			Update clock time: Year - set 5208 to 2(GUI) or 3(Modbus) - set desired time registers - set 5236 to 1 - set 5208 to 0
5192	string	0	0	32	characters		Timezone Code (Hours from UTC):DLW+12NST+11HST+10YST+9PST+8PST+8PDTMST+7MST+7MDT CST+6CST+6CDT EST+5EST+5EDTCOT+4ART+3GST +2CVT+1UTC0 CET-1CET-2BST-3DLT-4CET-5FOX-6GLF-7CCT-8JST-9GST-10 LMA-11DLE-12

5208	unsigned16	0	0	3		Allows setting of time/date: set 5208 to 2(GUI) or 3(Modbus) - set desired time registers - set 5236 to 1 - set 5208 to 0
5209	unsigned16	0	0	2		Signal to set time/date
5210	unsigned32	0			seconds	Seconds from 1/1/1970
5212	unsigned16	1	0	2		Enable Time Server
5213	string		0	30		Set Time Server
5228	unsigned16	0				User Data Logging Treatment mode to use: Average=0 Current=1 Max=2 Min=3
5229	unsigned16	0				Data Logging database is ready
5230	string	0	0	2	characters	The number of digits to display after the decimal for concentration data
5231	unsigned16	0	0	1		Low Dynamic Filtering Enable (On/Off)
5232	unsigned16	0	0	1		High Dynamic Filtering Enable (On/Off)
5233	unsigned16	0	0	1		Digital IO for Auto Background Calibration
5234	unsigned16	0	0	1		Digital IO for Low Range Auto Span Calibration
5235	unsigned16	0	0	1		Digital IO for High Range Auto Span Calibration
5236	integer16	0	0	2		Commit user time change: set 5208 to 2(GUI) or 3(Modbus) - set desired time registers - set 5236 to 1 - set 5208 to 0
5237	integer16	0	0	1		If any pop up is open on the GUI the register will read 1. To close the dialog set this register to 0.
5500	unsigned16	0	0	1		Enable/disable the Digital IO module
5600	unsigned16	1	0	1		Allow Analog Outputs to go over or under range: 0 = Disable 1 = Enable
5601	unsigned16	0	0	1		Enable/Disable the Analog IO module
5602	float	0				Voltage Output Minimum 1
5604	float	0				Voltage Output Minimum 2
5606	float	0				Voltage Output Minimum 3
5608	float	0				Voltage Output Minimum 4
5610	float	0				Voltage Output Minimum 5
5612	float	0				Voltage Output Minimum 6
5614	float	100				Voltage Output Maximum 1
5616	float	100				Voltage Output Maximum 2
5618	float	100				Voltage Output Maximum 3
5620	float	100				Voltage Output Maximum 4
5622	float	100				Voltage Output Maximum 5
5624	float	100				Voltage Output Maximum 6
5626	float	0				Current Output Minimum 1
5628	float	0				Current Output Minimum 2
5630	float	0				Current Output Minimum 3

5632	float	0					Current Output Minimum 4
5634	float	0					Current Output Minimum 5
5636	float	0					Current Output Minimum 6
5638	float	0					Current Output Maximum 1
5640	float	0					Current Output Maximum 2
5642	float	0					Current Output Maximum 3
5644	float	0					Current Output Maximum 4
5646	float	0					Current Output Maximum 5
5648	float	0					Current Output Maximum 6
5700	unsigned16	1	0	1			Enable/Disable the Flow/Pressure module
6000	integer16	0	0	1			Purge Mode
6001	integer16	0	0	1			Zero Mode
6002	integer16	0	0	1			Span Mode
6003	integer16	1	0	1			Sample Mode
6004	integer16	0	0	1			Ext Span Mode (Optional)
6005	integer16	0	0	1			i0 Reference Mode [48iQTL only]
6006	integer16	0	0	9			Gas Mode: SAMPLE=0; ZERO=1; SPAN=2; PURGE=3; AUTO ZERO=4; AUTO SPAN=5; AUTO PURGE=6; EXTSPAN=7; i0 REFERENCE=8; WARMUP=9; NOTE: Scheduled calibrations should not be set via Modbus (AUTO ZERO; AUTO SPAN ; AUTO PURGE)
6100	unsigned16	1	0	1			Enable/disable the Dilution module
6101	float	1	1	500			Dilution ratio
6300	string	ppm	0	6			Gas Units user selectable: ppb ppm % ug/m3 mg/m3 g/m3
6305	unsigned16	1	0	1			Single Range Mode Request
6306	unsigned16	0	0	1			Dual Range Mode Request
6307	unsigned16	0	0	1			Auto Range Mode Request
6308	integer16	300	1	300	sec		Single/Low range concentration averaging time (sec)
6309	integer16	300	1	300	sec		High range concentration averaging time (sec)
6311	integer16	0	0	1			Set to 1 to compute and save new user calibration values
6312	float	0					Background Setpoint Value (User defined)
6314	unsigned16	0	0	7			Single/Low Range Multipoint Calibration Counter
6315	unsigned16	0	0	7			High Range Multipoint Calibration Counter
6316	float	1				6	Single/Low Range Multipoint Calibration Coefficient 1
6318	float	1				6	High Range Multipoint Calibration Coefficient 1
6320	float	0				6	Single/Low Range Multipoint Calibration Coefficient 2

6322	float	0				6	High Range Multipoint Calibration Coefficient 2
6324	float	0				6	Single/Low Range Multipoint Calibration Coefficient 3
6326	float	0				6	High Range Multipoint Calibration Coefficient 3
6328	float	0					Single/Low Range User Calibration Span Concentration (User defined units)
6330	float	0					High Range User Calibration Span Concentration (User defined units)
6336	float					Basic Units	Single/Low Range range limit(Basic Units ppb or ug/m3 for Logging and Protocols)
6338	float					Basic Units	High Range range limit(Basic Units ppb or ug/m3 for Logging and Protocols)
6340	float					PPB	Single/Low Range Multipoint Cal Span Concentration 1(Basic Units ppb or ug/m3 for Logging and Protocols)
6342	float					PPB	High Range Multipoint Cal Span Concentration 1(Basic Units ppb or ug/m3 for Logging and Protocols)
6344	float					PPB	Single/Low Range Multipoint Cal Span Concentration 2(Basic Units ppb or ug/m3 for Logging and Protocols)
6346	float					PPB	High Range Multipoint Cal Span Concentration 2(Basic Units ppb or ug/m3 for Logging and Protocols)
6348	float					PPB	Single/Low Range Multipoint Cal Span Concentration 3(Basic Units ppb or ug/m3 for Logging and Protocols)
6350	float					PPB	High Range Multipoint Cal Span Concentration 3(Basic Units ppb or ug/m3 for Logging and Protocols)
6352	float	1	0.5	2		6	Single/Low Range Multipoint Cal Point 1 Coefficient
6354	float	1	0.5	2		6	High Range Multipoint Cal Point 1 Coefficient
6356	float	1	0.5	2		6	Single/Low Range Multipoint Cal Point 2 Coefficient
6358	float	1	0.5	2		6	High Range Multipoint Cal Point 2 Coefficient
6360	float	1	0.5	2		6	Single/Low Range Multipoint Cal Point 3 Coefficient
6362	float	1	0.5	2		6	High Range Multipoint Cal Point 3 Coefficient
6364	float						Single/Low Range Multipoint Cal Point 1 VarX
6366	float						High Range Multipoint Cal Point 1 VarX
6368	float						Single/Low Range Multipoint Cal Point 2 VarX

6370	float						High Range Multipoint Cal Point 2 VarX
6372	float						Single/Low Range Multipoint Cal Point 3 VarX
6374	float						High Range Multipoint Cal Point 3 VarX
6376	float	0			Basic Units		Concentration Alarm Minimum(Basic Units ppb or ug/m3 for Protocols)
6378	float	0			Basic Units		Concentration Alarm Maximum(Basic Units ppb or ug/m3 for Protocols)
6380	float	600	250	1000	mmHg	1	Pressure Alarm Minimum
6382	float	800	250	1000	mmHg	1	Pressure Alarm Maximum
6384	float	0.35	0	2	L/min	3	Flow Alarm Minimum
6386	float	1.5	0	2	L/min	3	Flow Alarm Maximum
6388	float	8	8	47	degC	1	Instrument Temperature Alarm Minimum
6390	float	47	8	47	degC	1	Instrument Temperature Alarm Maximum
6392	float	0			Basic Units		Background Offset Alarm Maximum(Basic Units ppb or ug/m3 for Protocols)
6394	float	0			Basic Units		Span Offset Alarm Maximum(Basic Units ppb or ug/m3 for Protocols)
6396	float	0			Basic Units		Max Reference Offset Alarm (Basic Units ppb or ug/m3 for Protocols)
6400	float	0				1	Initial S/R timestamp
6402	unsigned16	0	0	255			Motor Serial Number
6403	float	0.5					Initial S/R Ratio Minimum Allowed Value
6405	float	2					Initial S/R Ratio Maximum Allowed Value
6900	unsigned16	0	0	1			Enable/disable the Communication module
7000	unsigned16	0	0	1			Enable/Disable the Predictive Diagnostics module
7600	float	1	0.5	2		3	O2 Calibration Coefficient [if O2 Sensor installed]
7602	float	-0.5	-5	100	%	1	Min Conc Alarm limit [if O2 Sensor Installed]
7604	float	25	0	100	%	1	Max Conc Alarm limit [if O2 Sensor Installed]
7606	float	1	0.5	2		3	O2 Span user coef
7608	float	0	0	100	%	2	O2 Span user concentration
7610	float	0			%		Edit O2 Cal-1 Factory Offset
7612	float	20.9			%		Edit O2 Cal-2 Factory Span

7614	unsigned16	0	0	5			Directions to perform O2 Calibrations using Modbus:Manual Span: set modbus register 7606 to desired O2 span coefficient value; after that set modbus register 7614 to 1Auto Span: set modbus register 7608 to desired O2 span concentration value; after that set modbus register 7614 to 2Reset Defaults: set modbus register 7614 to 3o2 point 1: set modbus register 7610 to desired o2 concentration; after that set modbus register 7614 to 4o2 point 2: set modbus register 7612 to desired o2 concentration; after that set modbus register 7614 to 5
8400	float	0	0	5E+09			User Span Conc.
8402	float	0	0	5E+09			Hi User Span Conc.
8404	unsigned16	0	0	65535			Directions to perform Calibrations using Modbus:Manual Bkg: set modbus register 8405 to the desired background value in Base Gas Units (PPB or ug/m3); after that set modbus register 8404 to 1Auto Bkg: set modbus register 8404 to 2Manual Span or Manual Span Low: set modbus register 8405 to desired span coefficient value; after that set modbus register 8404 to 3Manual Span High: set modbus register 8405 to desired span coefficient value; after that set modbus register 8404 to 4Auto Span or Auto Span Low: set modbus register 8405 to desired span concentration value in Base Gas Units (PPB or ug/m3); after that set modbus register 8404 to 5Auto Span High: set modbus register 8405 to desired high span concentration value in Base Gas Units (PPB or ug/m3); after that set modbus register to 8404 to 6Reset Defaults: set modbus register 8404 to 7To see the new concentration value in Base Gas Units (PPB or ug/m3) use modbus register 3 for low range or modbus register 5 for high range
8405	float	0					see comments above
8500	unsigned16	1	0	1			Enable(1)/disable(0) the Intelligent Zero Start
10000	string		0	50	characters		SMTP Server address for emails
10025	unsigned16	25	0				SMTP port for sending emails

10026	string		0	255	characters	E-mail From address for sending emails
10154	string		0	16	characters	E-mail password for sending emails
10162	string		0	255	characters	PCP email address
10290	string		0	255	characters	Contact Information: To: User email address
10418	string		0	255	characters	Contact Information: CC: User email address 1
10546	string		0	255	characters	Contact Information: CC: User email address 2
10674	string		0	255	characters	Contact Information: CC: User email address 3
10802	string		0	255	characters	Contact Information: CC: User email address 4
10930	string		0	255	characters	Contact Information: CC: User email address 5
11058	string		0	255	characters	Contact Information: CC: User email address 6
11186	string		0	255	characters	Contact Information: CC: User email address 7
11314	string		0	255	characters	Contact Information: CC: User email address 8
11442	string		0	255	characters	Contact Information: CC: User email address 9
11570	string		0	255	characters	Contact Information: CC: User email address 10

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