SOLARTRON ORBIT ACS MODBUS PARAMETER MAP - SI100/SI200 V1.53
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Note1: Column 'NumRegs' refers to the number of 16bit modbus registers consumed by the parameter.
Note2: Column 'DP pos' refers to the number of implied decimal places.

Param Address	Name	ReadRule	WriteRule	Enumeration	Type	NumRegs	DP pos	Notes
1	Version	ALWAYS	INTERNAL_ONLY		UNSIGNED_SHORT	1	2	Instrument Firmware Version as read from the internal header
2	UnitType	ALWAYS	L7	PRODUCT_TYPE	UNSIGNED_SHORT	1	0	Product type
3	Units	ALWAYS	L2	Units	UNSIGNED_SHORT	1	0	Units 0=mm 1=Inches
5	SaveSett	ALWAYS	L3		UNSIGNED_SHORT	1	0	Zero to non-zero transition causes all non-volatile parameters to be saved to non-volatile memory
6	SaveErr	ALWAYS	INTERNAL_ONLY		UNSIGNED_SHORT	1	0	Indicates error state of NVOL
7	SaveStts	ALWAYS	INTERNAL_ONLY		UNSIGNED_SHORT	1	0	Indicates initialisation state of NVOL storage
8	FactoryRestore1	ALWAYS	ALWAYS		UNSIGNED_SHORT	1	0	Set both this and FactoryRestore2 to a value of 1111 to perform a factory restore
9	FactoryRestore2	ALWAYS	ALWAYS		UNSIGNED_SHORT	1	0	Set both this and FactoryRestore1 to a value of 1111 to perform a factory restore
19	PHiAlm	SI100orSI200	L3		SIGNED_LONG_LONG	4	6	High alarm level for Channel A (built in probe) in current units
23	PLoAlm	SI100orSI200	L3		SIGNED_LONG_LONG	4	6	Low alarm level for Channel A (built in probe) in current units
27	DO1Func	SI100orSI200	L3	DO_CONFIG	UNSIGNED_SHORT	1	0	Configures operation of digital output
28	DO2Func	SI100orSI200	L3	DO_CONFIG	UNSIGNED_SHORT	1	0	Configures operation of digital output
29	DO3Func	SI100orSI200	L3	DO_CONFIG	UNSIGNED_SHORT	1	0	Configures operation of digital output
32	ChanSync	SI100orSI200	L3	OFF_ON	UNSIGNED_SHORT	1	0	Set this to a non-zero value to cause an action invoked for one channel to also be invoked on the other.
33	PriTRACK	SI100orSI200	ALWAYS	USER_ACTION	UNSIGNED_SHORT	1	0	Set this to any non-zero value to invoke TRACK mode on Primary calculation chain Peak function block.
34	PriPEAK+	SI100orSI200	ALWAYS	USER_ACTION	UNSIGNED_SHORT	1	0	Set this to any non-zero value to invoke PEAK+ mode on Primary calculation chain Peak function block.
35	PriPEAK-	SI100orSI200	ALWAYS	USER_ACTION	UNSIGNED_SHORT	1	0	Set this to any non-zero value to invoke PEAK- mode on Primary calculation chain Peak function block.
36	PriPKRST	SI100orSI200	ALWAYS	USER_ACTION	UNSIGNED_SHORT	1	0	Set this to any non-zero value to invoke PEAK Reset on Primary calculation chain Peak functin block.
37	PriABS	SI100orSI200	ALWAYS	USER_ACTION	UNSIGNED_SHORT	1	0	Set this to any non-zero value to invoke ABS mode on Primary Measurement Computation function blocks.
38	PriZERO	SI100orSI200	ALWAYS	USER_ACTION	UNSIGNED_SHORT	1	0	Set this to any non-zero value to invoke ZERO mode on Primary Measurement Computation function blocks.
39	PriPrset	SI100orSI200	ALWAYS	USER_ACTION	UNSIGNED_SHORT	1	0	Set this to any non-zero value to invoke PRESET mode on Primary Measurement Computation function blocks.
40	PAMxRST	SI100orSI200	ALWAYS	USER_ACTION	UNSIGNED_SHORT	1	0	Set this to any non-zero value to invoke a reset of Primary calculation chain - channel A Max
41	PAMnRST	SI100orSI200	ALWAYS	USER_ACTION	UNSIGNED_SHORT	1	0	Set this to any non-zero value to invoke a reset of Primary calculation chain - channel A Min
42	PMxMnRST	SI100orSI200	ALWAYS	USER_ACTION	UNSIGNED_SHORT	1	0	Set this to any non-zero value to invoke a reset of Primary calculation chain - channel A Max AND Channel A Min
43	Print	SI100orSI200	ALWAYS	USER_ACTION	UNSIGNED_SHORT	1	0	Set this to any non-zero value to invoke a PRINT output if ASCII type communications protocol is selected.
44	PBMxRST	SI200Only	ALWAYS	USER_ACTION	UNSIGNED_SHORT	1	0	Set this to any non-zero value to invoke a reset of Primary calculation chain - channel B Max
45	PBMnRST	SI200Only	ALWAYS	USER_ACTION	UNSIGNED_SHORT	1	0	Set this to any non-zero value to invoke a reset of Primary calculation chain - channel B Min
46	SecTRACK	SI200Only	ALWAYS	USER_ACTION	UNSIGNED_SHORT	1	0	Set this to any non-zero value to invoke TRACK mode on Secondary calculation chain Peak function block.
47	SecPEAK+	SI200Only	ALWAYS	USER_ACTION	UNSIGNED_SHORT	1	0	Set this to any non-zero value to invoke PEAK+ mode on Secondary calculation chain Peak function block.
48	SecPEAK-	SI200Only	ALWAYS	USER_ACTION	UNSIGNED_SHORT	1	0	Set this to any non-zero value to invoke PEAK- mode on Secondary calculation chain Peak function block.
49	SecPKRST	SI200Only	ALWAYS	USER_ACTION	UNSIGNED_SHORT	1	0	Set this to any non-zero value to invoke PEAK Reset on Secondary calculation chain Peak functin block.
50	SecABS	SI200Only	ALWAYS	USER_ACTION	UNSIGNED_SHORT	1	0	Set this to any non-zero value to invoke ABS mode on Secondary Measurement Computation function blocks.
51	SecZERO	SI200Only	ALWAYS	USER_ACTION	UNSIGNED_SHORT	1	0	Set this to any non-zero value to invoke ZERO mode on Secondary Measurement Computation function blocks.
52	SecPrset	SI200Only	ALWAYS	USER_ACTION	UNSIGNED_SHORT	1	0	Set this to any non-zero value to invoke PRESET mode on Secondary Measurement Computation function blocks.
53	SAMxRST	SI200Only	ALWAYS	USER_ACTION	UNSIGNED_SHORT	1	0	Set this to any non-zero value to invoke a reset of Secondary calculation chain - channel A Max
54	SAMnRST	SI200Only	ALWAYS	USER_ACTION	UNSIGNED_SHORT	1	0	Set this to any non-zero value to invoke a reset of Secondary calculation chain - channel A Min
55	SBMxRST	SI200Only	ALWAYS	USER_ACTION	UNSIGNED_SHORT	1	0	Set this to any non-zero value to invoke a reset of Secondary calculation chain - channel B Max
56	SBMnRst	SI200Only	ALWAYS	USER_ACTION	UNSIGNED_SHORT	1	0	Set this to any non-zero value to invoke a reset of Secondary calculation chain - channel B Min
57	SMxMnRST	SI200Only	ALWAYS	USER_ACTION	UNSIGNED_SHORT	1	0	Set this to any non-zero value to invoke a reset of Secondary calculation chain - channel A and B Max and Min
59	SHiAlm	SI200Only	L3		SIGNED_LONG_LONG	4	6	High alarm level for Channel B (external probe) in current units
63	SLoAlm	SI200Only	L3		SIGNED_LONG_LONG	4	6	Low alarm level for Channel B (external probe) in current units
70	DefltLvl	ALWAYS	CURRENT_ACCESS_LEVEL	ACCESS_LEVEL	UNSIGNED_SHORT	1	0	Access level to assume on start-up.
71	AcsLvl	ALWAYS	CURRENT_ACCESS_LEVEL	ACCESS_LEVEL	UNSIGNED_SHORT	1	0	Current access level. May be manually reduced but password needed to increase
72	Password	ALWAYS	PASSWORD_ALLOWED		UNSIGNED_LONG	2	0	Enter password here for new Access Level. Note: Invalid password entry three times in a row will cause this parameter to be not writable for one-minute.
74	L1PW	L1	L1_PASSWORD_SET		UNSIGNED_LONG	2	0	Password for L1 access
76	L2PW	L2	L2_PASSWORD_SET		UNSIGNED_LONG	2	0	Password for L2 access
78	L3PW	L3	L3_PASSWORD_SET		UNSIGNED_LONG	2	0	Password for L3 access
80	L4PW	L4	L4_PASSWORD_SET		UNSIGNED_LONG	2	0	Password for L4 access
100	Protocol	ALWAYS	L3	PROTOCOLS	UNSIGNED_SHORT	1	0	COM Port Protocol
101	ID/Add	ALWAYS	L3		UNSIGNED_SHORT	1	0	COM Port Protocol ID / Address
102	PortHW	ALWAYS	L3	RS232RS485	UNSIGNED_SHORT	1	0	COM Port Hardware
103	Baud	ALWAYS	L3	BAUD	UNSIGNED_SHORT	1	0	COM Port Baud rate
104	Bits/Word	ALWAYS	L3	COMMSWORDLENGTH	UNSIGNED_SHORT	1	0	COM Port Number of bits per word
105	StopBits	ALWAYS	L3	COMMSSTOPBITS	UNSIGNED_SHORT	1	0	COM Port Number of stop bits
106	Parity	ALWAYS	L3	PARITY	UNSIGNED_SHORT	1	0	COM Port Parity
108	ReplyDly	ALWAYS	L3		UNSIGNED_SHORT	1	0	COM Port Intermessage delay (mS to wait before responding)
109	InitPort	ALWAYS	INTERNAL_ONLY		UNSIGNED_SHORT	1	0	COM Port Initialise - port initialises whenever this parameter is written to
110	PrntNow1	ALWAYS	L3		POINTER	1	0	COM Port - Address for parameter to cause PrintNow for any of the ASCII based protocols - print occurs on +ve transition of addressed parameter or continuously if configured.
111	PrntNow2	ALWAYS	L3		POINTER	1	0	COM Port - Address for parameter to cause PrintNow for any of the ASCII based protocols - print occurs on +ve transition of addressed parameter or continuously if configured.
112	PrntCont	ALWAYS	L3		POINTER	1	0	COM Port - Address for parameter that indicates whether continuous ASCII output is required. Note: InterMessageDelay will be used to slow comms rate as defined.
114	ChALabel	ALWAYS	L3		STRING8	4	0	DR600 ASCII Comms - Channel A Label
118	ChBLabel	ALWAYS	L3		STRING8	4	0	DR600 ASCII Comms -
122	ExtraCRs	ALWAYS	L3		UNSIGNED_SHORT	1	0	DR600 ASCII Comms - Number of extra carriage returns
123	ChkAlms	ALWAYS	L3	NO_YES	UNSIGNED_SHORT	1	0	DR600 ASCII Comms - Check Alarms
124	PrntMode	ALWAYS	L3		UNSIGNED_SHORT	1	0	DR600 ASCII Comms - Print Mode
125	OrbACSP	SI100orSI200	L3	ACSASCIIMODE	UNSIGNED_SHORT	1	0	ACS ASCII Print mode - use to configure ASCII output of Primary channel - Secondary channel or both.
150	DO_5V	ALWAYS	L3	OFF_ON	UNSIGNED_SHORT	1	0	Switch on / off the Digital Output 5V pull up (open collector outputs)
151	DOMode	ALWAYS	L3	NPN_PNP	UNSIGNED_SHORT	1	0	Select PNP / NPN / Logic5V operation of digital outputs
152	DO1_Add	ALWAYS	L3		POINTER	1	0	Address of parameter to drive Digital Output 1 (Addressed parameter value of 0 = output off / <>0 = on).
153	DO1_Inv	ALWAYS	L3	OFF_ON	UNSIGNED_SHORT	1	0	Invert option for Digital Output1
154	DO2_Add	ALWAYS	L3		POINTER	1	0	Address of parameter to drive Digital Output 2 (Addressed parameter value of 0 = output off / <>0 = on).
155	DO2_Inv	ALWAYS	L3	OFF_ON	UNSIGNED_SHORT	1	0	Invert option for Digital Output2
156	DO3_Add	ALWAYS	L3		POINTER	1	0	Address of parameter to drive Digital Output 3 (Addressed parameter value of 0 = output off / <>0 = on).
157	DO3_Inv	ALWAYS	L3	OFF_ON	UNSIGNED_SHORT	1	0	Invert option for Digital Output3
166	DI1 Actn	SI100orSI200	L3	BUTTON_ACTIONS	UNSIGNED_SHORT	1	0	Configure Action for DI_1
167	DI2 Actn	SI100orSI200	L3	BUTTON_ACTIONS	UNSIGNED_SHORT	1	0	Configure Action for DI_2
168	DI3 Actn	SI100orSI200	L3	BUTTON_ACTIONS	UNSIGNED_SHORT	1	0	Configure Action for DI_3
169	DI4 Actn	SI100orSI200	L3	BUTTON_ACTIONS	UNSIGNED_SHORT	1	0	Configure Action for DI_4
170	Dbnc_mS	ALWAYS	L3		UNSIGNED_SHORT	1	0	Debounce period for all Digital Inputs
171	DI1_Val	ALWAYS	INTERNAL_ONLY	OFF_ON	UNSIGNED_SHORT	1	0	Digital Input 1 value
172	DI1_Inv	ALWAYS	L3	DI_CONFIG	UNSIGNED_SHORT	1	0	Invert option for Digital Input 1
173	DI2_Val	ALWAYS	INTERNAL_ONLY	OFF_ON	UNSIGNED_SHORT	1	0	Digital Input 2 value
174	DI2_Inv	ALWAYS	L3	DI_CONFIG	UNSIGNED_SHORT	1	0	Invert option for Digital Input 2
175	DI3_Val	ALWAYS	INTERNAL_ONLY	OFF_ON	UNSIGNED_SHORT	1	0	Digital Input 3 value
176	DI3_Inv	ALWAYS	L3	DI_CONFIG	UNSIGNED_SHORT	1	0	Invert option for Digital Input 3
177	DI4_Val	ALWAYS	INTERNAL_ONLY	OFF_ON	UNSIGNED_SHORT	1	0	Digital Input 4 value
178	DI4_Inv	ALWAYS	L3	DI_CONFIG	UNSIGNED_SHORT	1	0	Invert option for Digital Input 4
179	ExtSupp	ALWAYS	INTERNAL_ONLY	OFF_ON	UNSIGNED_SHORT	1	0	External Supply Present Digital Input value
180	ExtS_Inv	ALWAYS	L3	DI_CONFIG	UNSIGNED_SHORT	1	0	Invert option for External Supply Present Digital Input value
181	SPrstVal	SI200Only	L2		SIGNED_LONG_LONG	4	6	Secondary Calculation chain - User Preset Value to be applied when preset employed.
185	SecPrNow	SI200Only	L2		UNSIGNED_SHORT	1	0	FALSE to TRUE transition causes Preset to be applied - Secondary Calculation chain
186	SecZoNow	SI200Only	L2		UNSIGNED_SHORT	1	0	FALSE to TRUE transition causes Zero to be applied - Secondary Calculation chain -
187	ScPkRST	SI200Only	L2		UNSIGNED_SHORT	1	0	Secondary Calculation chain - Peak+/- Reset
188	SRstTime	SI200Only	L2		SIGNED_LONG_LONG	4	6	Secondary Calculation chain - Peak+/- Auto Reset - time threshold - time below level threshold before auto-reset engaged.
192	SRstLvl	SI200Only	L2		SIGNED_LONG_LONG	4	6	Secondary Calculation chain - Peak+/- Auto Reset - level threshold - level threshold before auto-reset engaged after time period.
239	DPpos	ALWAYS	L3		UNSIGNED_SHORT	1	0	Number of decimal places to show on main screens
240	PrntCont	ALWAYS	L3	NO_YES	UNSIGNED_SHORT	1	0	Set TRUE to print ASCII output continuously or FALSE to print only when triggered
241	PPrstVal	SI100orSI200	L2		SIGNED_LONG_LONG	4	6	User Preset Value to be applied when preset employed.
245	PrstNow	ALWAYS	L2		UNSIGNED_SHORT	1	0	FALSE to TRUE transition causes Preset to be applied.
246	ZeroNow	ALWAYS	L2		UNSIGNED_SHORT	1	0	FALSE to TRUE transition causes Zero to be applied.
247	PeakRst	ALWAYS	L2		UNSIGNED_SHORT	1	0	Peak Reset
248	PRstTime	SI100orSI200	L2		SIGNED_LONG_LONG	4	6	Peak Auto Reset - time threshold - time below level threshold before auto-reset engaged.
252	PRstLvl	SI100orSI200	L2		SIGNED_LONG_LONG	4	6	Peak+/- Auto Reset - level threshold - level threshold before auto-reset engaged after time period.
256	Rounding	ALWAYS	L2		SIGNED_LONG_LONG	4	6	Global UserValue linked to Measurment block Rounding - set this parameter to units of rounding required.
260	RstMxMin	ALWAYS	L1		UNSIGNED_SHORT	1	0	Global UserValue linked to Measurment block for resetting Max / Min values - setting this parameter TRUE will cause reset of MAX / MIN - setting FALSE allows Max/Min to track.
390	Micro1_DetachableProbeError	ALWAYS	INTERNAL_ONLY		UNSIGNED_SHORT	1	0	0= no detachable probe error / 1 = error encountered - either detached or not compatible.
451	PNo1-8	ALWAYS	INTERNAL_ONLY		STRING8	4	0	Product Part Number String (characters 1-8)
455	PNo9-16	ALWAYS	INTERNAL_ONLY		STRING8	4	0	Product Part Number String (characters 9-16)
459	PNo17-24	ALWAYS	INTERNAL_ONLY		STRING8	4	0	Product Part Number String (characters 17-24)
463	PNo25-32	ALWAYS	INTERNAL_ONLY		STRING8	4	0	Product Part Number String (characters 25-32)

467	IDs1-8	ALWAYS	INTERNAL_ONLY		STRING8	4	0	Orbit ID String (characters 1-8)
471	IDs9-16	ALWAYS	INTERNAL_ONLY		STRING8	4	0	Orbit ID String (characters 9-16)
475	VersionS	ALWAYS	INTERNAL_ONLY		STRING8	4	0	Version Number String
479	Type1-8	ALWAYS	INTERNAL_ONLY		STRING8	4	0	Product Type String (characters 1-8)
483	Type9-16	ALWAYS	INTERNAL_ONLY		STRING8	4	0	Product Type String (characters 9-16)
496	GFuncErr	ALWAYS	L3	OK_ERROR	UNSIGNED_SHORT	1	0	Error within Strategy detected - latching / user clearable
497	FuncErr	ALWAYS	INTERNAL_ONLY	OK_ERROR	UNSIGNED_SHORT	1	0	Current error within strategy.
905	ChAMode	ALWAYS	INTERNAL_ONLY	CHANCOND_Mode	UNSIGNED_SHORT	1	0	Current output mode (0=ABS / 1=TARE / 2=PRE)
906	POutput	ALWAYS	INTERNAL_ONLY		SIGNED_LONG_LONG	4	6	Current output value
910	Cnd1_PV	ALWAYS	INTERNAL_ONLY		SIGNED_LONG_LONG	4	6	Preset value currently applied to output
914	Cnd1_ZV	ALWAYS	INTERNAL_ONLY		SIGNED_LONG_LONG	4	6	Zero offset currently applied to output
925	ChBMode	SI200OrHigher	INTERNAL_ONLY	CHANCOND_Mode	UNSIGNED_SHORT	1	0	Current output mode (0=ABS / 1=TARE / 2=PRE)
926	SOutput	SI200OrHigher	INTERNAL_ONLY		SIGNED_LONG_LONG	4	6	Current output value
930	Cnd2_PV	SI200OrHigher	INTERNAL_ONLY		SIGNED_LONG_LONG	4	6	Preset value currently applied to output
934	Cnd2_ZV	SI200OrHigher	INTERNAL_ONLY		SIGNED_LONG_LONG	4	6	Zero offset currently applied to output
1001	PMType	SI100orSI200	L3	PEAK_MODE	UNSIGNED_SHORT	1	0	Mode of Primary channel Peak detection
1002	PRstType	SI100orSI200	L3	MANUAL_AUTO	UNSIGNED_SHORT	1	0	Primary Peak reset mode
1006	POutput	SI100orSI200	INTERNAL_ONLY		SIGNED_LONG_LONG	4	6	Output Value
1015	SMType	SI200Only	L3	PEAK_MODE	UNSIGNED_SHORT	1	0	Mode of Secondary channel Peak detection
1016	SRstType	SI200Only	L3	MANUAL_AUTO	UNSIGNED_SHORT	1	0	Secondary Peak reset mode
1020	SOutput	SI200Only	INTERNAL_ONLY		SIGNED_LONG_LONG	4	6	Output Value
1029	1029	SI200Only	L3	PEAK_MODE	UNSIGNED_SHORT	1	0	Mode of Peak detection 0=TRACK 1=PEAK+ 2=PEAK-
1030	TRstType	SI200Only	L3	MANUAL_AUTO	UNSIGNED_SHORT	1	0	
1034	1034	SI200Only	INTERNAL_ONLY		SIGNED_LONG_LONG	4	6	Output Value
1050	FBS_MEASCOMP1_ChANodeIndex	ALWAYS	L3		UNSIGNED_SHORT	1	0	ChannelA Module node index
1051	FBS_MEASCOMP1_ChBNodeIndex	ALWAYS	L3		UNSIGNED_SHORT	1	0	ChannelB Module node index
1057	PMode	SI100orSI200	L1	COMPUTATION_MODE	UNSIGNED_SHORT	1	0	Measurement mode (A&B / A+B / A-B etc)
1058	PMxA	ALWAYS	L3		SIGNED_LONG_LONG	4	6	Maximum recorded value for ChannelA
1062	PMnA	ALWAYS	L3		SIGNED_LONG_LONG	4	6	Minimum recorded value for ChannelA
1066	PMxB	ALWAYS	L3		SIGNED_LONG_LONG	4	6	Maximum recorded value for ChannelB
1070	PMnB	ALWAYS	L3		SIGNED_LONG_LONG	4	6	Minimum recorded value for ChannelB
1074	PStatus	ALWAYS	INTERNAL_ONLY		UNSIGNED_SHORT	1	0	Output Status register (0=All relevant inputs Ok)
1075	1NdStat	ALWAYS	INTERNAL_ONLY		UNSIGNED_SHORT	1	0	Node status register (0=All relevant nodes OK).
1076	POutput	SI100orSI200	INTERNAL_ONLY		SIGNED_LONG_LONG	4	6	Primary 'computed measurement' according to current mode.
1080	POut1Rng	ALWAYS	INTERNAL_ONLY		SIGNED_LONG	2	6	Range of primary output (maximum output value)
1082	POut1Ost	ALWAYS	INTERNAL_ONLY		SIGNED_LONG	2	6	Offset of primary output (maximum output value)
1084	POutput2	SI100orSI200	INTERNAL_ONLY		SIGNED_LONG_LONG	4	6	Secondary output (ChannelB rounded)
1088	POut2Rng	SI100orSI200	INTERNAL_ONLY		SIGNED_LONG	2	6	Range of secondary output (maximum output value)
1090	POut2Ost	SI100orSI200	INTERNAL_ONLY		SIGNED_LONG	2	6	Offset of secondary output (maximum output value)
1092	PErr	ALWAYS	INTERNAL_ONLY		UNSIGNED_SHORT	1	0	Error state for this function block.
1094	FBS_MEASCOMP2_ChANodeIndex	ALWAYS	L3		UNSIGNED_SHORT	1	0	ChannelA Node Index
1095	FBS_MEASCOMP2_ChBNodeIndex	ALWAYS	L3		UNSIGNED_SHORT	1	0	ChannelB Node Index
1101	SMode	SI200Only	L1	COMPUTATION_MODE	UNSIGNED_SHORT	1	0	Measurement mode (A&B / A+B / A-B etc)
1102	SMxA	ALWAYS	L3		SIGNED_LONG_LONG	4	6	Maximum recorded value for ChannelA
1106	SMnA	ALWAYS	L3		SIGNED_LONG_LONG	4	6	Minimum recorded value for ChannelA
1110	SMxB	ALWAYS	L3		SIGNED_LONG_LONG	4	6	Maximum recorded value for ChannelB
1114	SMnB	ALWAYS	L3		SIGNED_LONG_LONG	4	6	Minimum recorded value for ChannelB
1118	SStatus	ALWAYS	INTERNAL_ONLY		UNSIGNED_SHORT	1	0	Output Status register (0=All relevant inputs Ok)
1119	2NdStat	ALWAYS	INTERNAL_ONLY		UNSIGNED_SHORT	1	0	Node status register (0=All relevant nodes OK).
1120	SOutput	SI200Only	INTERNAL_ONLY		SIGNED_LONG_LONG	4	6	Primary 'computed measurement' according to current mode.
1124	SOut1Rng	SI200Only	INTERNAL_ONLY		SIGNED_LONG	2	6	Range of primary output (maximum output value)
1126	SOut1Ost	SI200Only	INTERNAL_ONLY		SIGNED_LONG	2	6	Offset of primary output (maximum output value)
1128	SOutput2	SI200Only	INTERNAL_ONLY		SIGNED_LONG_LONG	4	6	Secondary output (ChannelB rounded)
1132	SOut2Rng	SI200Only	INTERNAL_ONLY		SIGNED_LONG	2	6	Range of secondary output (maximum output value)
1134	SOut2Ost	SI200Only	INTERNAL_ONLY		SIGNED_LONG	2	6	Offset of secondary output (maximum output value)
1136	SErr	ALWAYS	INTERNAL_ONLY		UNSIGNED_SHORT	1	0	Error state for this function block.
1230	FBS_MEASCOMP1_StatusString	ALWAYS	INTERNAL_ONLY		STRING8	4	0	Status output string for Measurement computation block 1
1234	FBS_MEASCOMP2_StatusString	ALWAYS	INTERNAL_ONLY		STRING8	4	0	Status output string for Measurement computation block 2
1238	FBS_MEASCOMP3_StatusString	ALWAYS	INTERNAL_ONLY		STRING8	4	0	Status output string for Measurement computation block 3
1242	FBS_MEASCOMP4_StatusString	ALWAYS	INTERNAL_ONLY		STRING8	4	0	Status output string for Measurement computation block 4
1501	Language	ALWAYS	L6	LANGUAGES	UNSIGNED_SHORT	1	0	Current language selection
1502	DispDir	ALWAYS	L3	DispDir	UNSIGNED_SHORT	1	0	Screen orientation
1503	KBRotate	ALWAYS	L3	NO_YES	UNSIGNED_SHORT	1	0	Option to Rotate keyboard with screen orientation
1504	BGColAdd	ALWAYS	L3		POINTER	1	0	Pointer to address of parameter describing the main background colour of the screen
1505	LtBtnAcn	SI100orSI200	L3	BUTTON_ACTIONS	UNSIGNED_SHORT	1	0	Configuration for left button action on main screens (0=Off : 1=Track : 2=Peak+ : 3=Peak- : 4=PeakRST : 5=ABS : 6=TARE : 7=PRESET : 8=PRINT : 9=MaxMinRST)
1506	RtBtnAcn	SI100orSI200	L3	BUTTON_ACTIONS	UNSIGNED_SHORT	1	0	Configuration for left button action on main screens (0=Off : 1=Track : 2=Peak+ : 3=Peak- : 4=PeakRST : 5=ABS : 6=TARE : 7=PRESET : 8=PRINT : 9=MaxMinRST)
2200	CurrMode	SI200OrHigher	INTERNAL_ONLY	ORBIT_MODE	UNSIGNED_SHORT	1	0	Current Orbit Netowrk Mode. Use 'ModeRequired' to control actual mode.
2201	NewMode	SI200OrHigher	L3	ORBIT_MODE	UNSIGNED_SHORT	1	0	User set rquired new mode of Orbit Network (Initialising - ReadingCycle - NotifySingle - NotifyMany - ResetClr)
2202	LockCFG	SI200OrHigher	L3	LOCK__UNLOCKED_LOCKED	UNSIGNED_SHORT	1	0	Set TRUE to lock the configuration and inhibit ResetClear mode (clear entire network). Note: This doesn't inhibit Notify and adding modules. It only inhibits a full network clear.
2203	Res.	ALWAYS	L3	ORBIT_RESOLUTION	UNSIGNED_SHORT	1	0	Orbit Network Resolution
2204	Av.	ALWAYS	L3	ORBIT_AVERAGING	UNSIGNED_SHORT	1	0	Orbit Network Averaging
2206	Error	ALWAYS	INTERNAL_ONLY		UNSIGNED_SHORT	1	0	0=No Error. Otherwise this parameter is set to ID of node not responding or an Orbit ACS error code 0xFFxx
2207	ScanLT	ALWAYS	INTERNAL_ONLY		UNSIGNED_SHORT	1	0	Duration of last complete Orbit Network Scan in mS
2208	ScanMxT	ALWAYS	INTERNAL_ONLY		UNSIGNED_SHORT	1	0	Maximum duration of complete Orbit Network Scan in mS
2250	Status	ALWAYS	INTERNAL_ONLY	ORBIT_MODULE_STATUS	UNSIGNED_SHORT	1	0	Module Status
2251	Address	ALWAYS	INTERNAL_ONLY		UNSIGNED_SHORT	1	0	Module Address
2252	Type	ALWAYS	INTERNAL_ONLY	ORBIT_MODULE_TYPE	UNSIGNED_SHORT	1	0	Module Type
2253	Reading	OrbitOnline	INTERNAL_ONLY		SIGNED_LONG_LONG	4	6	Reading from probe or module. Derived from (RawUnits * ReadingScale) + ReadingOffset : All in current system Units
2257	RStatus	ALWAYS	INTERNAL_ONLY	READING_STATUS	UNSIGNED_SHORT	1	0	Status of input Reading
2258	Scale	ALWAYS	INTERNAL_ONLY		SIGNED_LONG	2	6	Input Scale (0-range) in current system units SINT32 with 3 decimal places.
2260	Offset	ALWAYS	INTERNAL_ONLY		SIGNED_LONG	2	6	Input Offset in current system units SINT32 with 3 decimal places. Offset used to derive ReadingInUnits (+/- offset applied after RawReading scaled).
2262	SNoStart	ALWAYS	INTERNAL_ONLY		STRING8	4	0	Start of module serial number (10 character string)
2266	SNoEnd	ALWAYS	INTERNAL_ONLY		STRING8	4	0	End of module number serial number (10 character string)
2270	Status	SI200OrHigher	INTERNAL_ONLY	ORBIT_MODULE_STATUS	UNSIGNED_SHORT	1	0	Module Status
2271	Address	SI200OrHigher	INTERNAL_ONLY		UNSIGNED_SHORT	1	0	Module Address
2272	Type	SI200OrHigher	INTERNAL_ONLY	ORBIT_MODULE_TYPE	UNSIGNED_SHORT	1	0	Module Type
2273	Reading	SI200OrHigher_OrbitOnline	INTERNAL_ONLY		SIGNED_LONG_LONG	4	6	Reading from probe or module. Derived from (RawUnits * ReadingScale) + ReadingOffset : All in current system Units
2277	RStatus	SI200OrHigher	INTERNAL_ONLY	READING_STATUS	UNSIGNED_SHORT	1	0	Status of input Reading
2278	Scale	SI200OrHigher	INTERNAL_ONLY		SIGNED_LONG	2	6	Input Scale (0-range) in current system units SINT32 with 3 decimal places.
2280	Offset	SI200OrHigher	INTERNAL_ONLY		SIGNED_LONG	2	6	Input Offset in current system units SINT32 with 3 decimal places. Offset used to derive ReadingInUnits (+/- offset applied after RawReading scaled).
2282	SNoStart	SI200OrHigher	INTERNAL_ONLY		STRING8	4	0	Start of module serial number (10 character string)
2286	SNoEnd	SI200OrHigher	INTERNAL_ONLY		STRING8	4	0	End of module number serial number (10 character string)
2350	Mod1Urng	UpdateWhenNeeded	INTERNAL_ONLY		UNSIGNED_SHORT	1	0	Overrange flag for Orbit Module 1
2351	Mod2Urng	UpdateWhenNeeded	INTERNAL_ONLY		UNSIGNED_SHORT	1	0	Overrange flag for Orbit Module 2
2355	Mod1Orng	UpdateWhenNeeded	INTERNAL_ONLY		UNSIGNED_SHORT	1	0	Underrange flag for Orbit Module 1
2356	Mod2Orng	UpdateWhenNeeded	INTERNAL_ONLY		UNSIGNED_SHORT	1	0	Underrange flag for Orbit Module 2
2400	ReScale	ALWAYS	L3		SIGNED_LONG_LONG	4	6	Rescaling for Orbit Module1 - New Scale parameter
2404	ReScale	SI200OrHigher	L3		SIGNED_LONG_LONG	4	6	Rescaling for Orbit Module2 - New Scale parameter
2420	ReOffset	ALWAYS	L3		SIGNED_LONG_LONG	4	6	Rescaling for Orbit Module1 - New Offset parameter
2424	ReOffset	SI200OrHigher	L3		SIGNED_LONG_LONG	4	6	Rescaling for Orbit Module2 - New Offset parameter
2440	UOM	ALWAYS	L3		STRING8	4	0	UOM for Module 1 (Read Only)
2444	UOM	SI200OrHigher	L3		STRING8	4	0	UOM for Module 2 (Read Only)
2460	P_UOM	ALWAYS	L3		STRING8	4	0	User settable UOM for Channel 1
2464	S_UOM	SI200OrHigher	L3		STRING8	4	0	User settable UOM for Channel 2
2500	LsrModL1	Module_Is_LTH_Type	INTERNAL_ONLY		STRING8	4	0	Model number for Network Index 0 laser (LTH) unit - 1st part of model number.
2504	LsrModL2	Module_Is_LTH_Type	INTERNAL_ONLY		STRING8	4	0	Model number for Network Index 0 laser (LTH) unit - 2nd part of model number.
2508	LsrModL1	Module_Is_LTH_Type	INTERNAL_ONLY		STRING8	4	0	Model number for Network Index 1 laser (LTH) unit - 1st part of model number.
2512	LsrModL2	Module_Is_LTH_Type	INTERNAL_ONLY		STRING8	4	0	Model number for Network Index 1 laser (LTH) unit - 2nd part of model number.
2550	LsrSNo1	Module_Is_LTH_Type	INTERNAL_ONLY		STRING8	4	0	Serial number for Network Index 0 laser (LTH) unit - 1st part of serial number.
2554	LsrSNo2	Module_Is_LTH_Type	INTERNAL_ONLY		STRING8	4	0	Serial number for Network Index 0 laser (LTH) unit - 2nd part of serial number.
2558	LsrSNo1	Module_Is_LTH_Type	INTERNAL_ONLY		STRING8	4	0	Serial number for Network Index 1 laser (LTH) unit - 1st part of serial number.
2562	LsrSNo2	Module_Is_LTH_Type	INTERNAL_ONLY		STRING8	4	0	Serial number for Network Index 1 laser (LTH) unit - 2nd part of serial number.
2650	LsrFiltr	Module_Is_LTH_Type	INTERNAL_ONLY	LASER_FILTER	UNSIGNED_SHORT	1	0	Filter time index for Network Index 0 laser unit (0=20KHz / 1=4KHz / 2=1KHz / 3=200Hz / 4=25Hz / 5=1Hz / 6=0.1Hz)
2651	LsrFiltr	Module_Is_LTH_Type	INTERNAL_ONLY	LASER_FILTER	UNSIGNED_SHORT	1	0	Filter time index for Network Index 1 laser unit (0=20KHz / 1=4KHz / 2=1KHz / 3=200Hz / 4=25Hz / 5=1Hz / 6=0.1Hz)
2675	LsrLv1CT	Module_Is_LTH_Type	Module_Is_LTH_Type		UNSIGNED_SHORT	1	1	Level Cut Time for Network Index 0 laser unit (time before Max/Min output fallback state when out of range).
2676	LsrLv1CT	Module_Is_LTH_Type	Module_Is_LTH_Type		UNSIGNED_SHORT	1	1	Level Cut Time for Network Index 1 laser unit (time before Max/Min output fallback state when out of range).
2690	AllLsrEn	ALWAYS	ALWAYS	OFF_ON	UNSIGNED_SHORT	1	0	Global Laser enable - turns all lasers on the network On (1) or off (0)
2691	Ch1LsrEn	Module_Is_LTH_Type	Module_Is_LTH_Type	OFF_ON	UNSIGNED_SHORT	1	0	Laser Enable state (1=On / 0 = Off) for Channel 1
2692	Ch2LsrEn	Module_Is_LTH_Type	Module_Is_LTH_Type	OFF_ON	UNSIGNED_SHORT	1	0	Laser Enable state (1=On / 0 = Off) for Channel 2

2830	CH1_SCA	ALWAYS	L3	MANUAL_AUTO	UNSIGNED_SHORT	1	0	Chart Scaling type (Manual / Auto) for Channel 1
2831	CH1ManHI	ALWAYS	L3		SIGNED_LONG_LONG	4	6	Chart Manual Upper Value for Channel 1
2835	CH1ManLO	ALWAYS	L3		SIGNED_LONG_LONG	4	6	Chart Manual Lower Value for Channel 1
2839	CH2_SCA	ALWAYS	L3	MANUAL_AUTO	UNSIGNED_SHORT	1	0	Chart Scaling type (Manual / Auto) for Channel 2
2840	CH2ManHI	ALWAYS	L3		SIGNED_LONG_LONG	4	6	Chart Manual Upper Value for Channel 2
2844	CH2ManLO	ALWAYS	L3		SIGNED_LONG_LONG	4	6	Chart Manual Lower Value for Channel 2
2870	CHInvert	ALWAYS	L3	OFF_ON	UNSIGNED_SHORT	1	0	Channel 1 invert flag
2871	CHInvert	ALWAYS	L3	OFF_ON	UNSIGNED_SHORT	1	0	Channel 2 invert flag

Enumeration Table

Enumeration Name	
PRODUCT_TYPE	[0]INVALID [1]SI100 [2]SI200 [3]NONE [4]SI400
ACCESS_LEVEL	[0]LEVEL0 [1]LEVEL1 [2]LEVEL2 [3]LEVEL3 [4]LEVEL4 [5]LEVEL5 [6]LEVEL6 [7]LEVEL7 [8]LEVEL8
DispDir	[0]Down [1]Left [2]Up [3]Right
Units	[0]mm [1]Inches [2]Mil
CHANCOND_Mode	[0]ABS [1]TARE [2]PRE
PEAK_MODE	[0]TRACK [1]PEAKPLUS [2]PEAKMINUS
READING_STATUS	[0]OK
(contd...)	[18]UNDERRANGE0 [19]OVERRANGE0
OFF_ON	[0]OFF [1]ON
NPN_PNP	[0]NPN [1]PNP [2]LOGIC5V
DI_CONFIG	[0]ACTIVE_LOW [1]ACTIVE_HIGH
OK_ERROR	[0]OK [1]ERROR
STD_FB_TYPE	[0]FB_OFF [1]FB_ADD [2]FB_SUBTRACT [3]FB_MULTIPLY [4]FB_DIVIDE [5]FB_GT [6]FB_LT [7]FB_EQUAL [8]FB_AND [9]FB_OR
(contd...)	[10]FB_NOT [11]FB_LATCH
LANGUAGES	[0]ENGLISH [1]FRENCH [2]GERMAN [3]SPANISH
NO_YES	[0]NO [1]YES
PROTOCOLS	[0]FB_OFF [1]ModbusRTU [2]ORBITACS [3]SI1500 [4]SI3500 [5]C55
RS232RS485	[0]RS485 [1]RS232
PARITY	[0]NONE [1]EVEN [2]ODD
BAUD	[0]300 [1]600 [2]1200 [3]2400 [4]4800 [5]9600 [6]19200 [7]28800 [8]38400 [9]57600
(contd...)	[10]115200
COMPUTATION_MODE	[0]OFF [1]MEASCOMP_MODE_A [2]MEASCOMP_MODE_MaxAminusMinA [3]MEASCOMP_MODE_B [4]MEASCOMP_MODE_AplusB [5]MEASCOMP_MODE_AminusB [6]MEASCOMP_MODE_AplusBdivTwo [7]MEASCOMP_MODE_AminusBdivTwo [8]MEASCOMP_MODE_MaxBminusMinB
MANUAL_AUTO	[0]MANUAL [1]AUTO
DO_CONFIG	[0]HighAlarm0 [1]LowAlarm0 [2]STRING_INDEX_NoAlarms0 [3]PRI_RANGE_ERR [4]Mod1URange [5]Mod1ORange [6]HighAlarm1 [7]LowAlarm1 [8]STRING_INDEX_NoAlarms1 [9]SEC_RANGE_ERR
(contd...)	[10]Mod2URange [11]Mod2ORange
COMMSWORDLENGTH	[0]8 [1]9
COMMSSTOPBITS	[0]0_5 [1]1 [2]1_5 [3]2
USER_ACTION	[0]USER_ACTION_IDLE [1]USER_ACTION_ACTIVATE
ORBIT_MODE	[0]AUTO [1]OrbitModeReadCycle [2]OrbitModeNotifySingle [3]OrbitModeNotifyMany [4]OrbitModeInitialise [5]OrbitModeResetClear [6]Ready
LOCK__UNLOCKED_LOCKED	[0]UNLOCKED [1]LOCKED
ORBIT_RESOLUTION	[0]14BIT [1]16BIT [2]18BIT
ORBIT_AVERAGING	[0]1CYCLE [1]2CYCLES [2]4CYCLES [3]8CYCLES [4]16CYCLES [5]32CYCLES [6]64CYCLES [7]128CYCLES [8]256CYCLES
ORBIT_MODULE_STATUS	[0]NotUsed [1]NotResponding [2]OrbitModeInitialise [3]AwaitingFirstRead [4]Online [5]Offline
ORBIT_MODULE_TYPE	[0]NotUsed [1]MODULE_TYPE_DP [2]MODULE_TYPE_AIM [3]MODULE_TYPE_LE [4]MODULE_TYPE_LTH [5]MODULE_TYPE_LT
BUTTON_ACTIONS	[0]OFF [1]Action_PriTRACK [2]Action_PriPEAKPlus [3]Action_PriPEAKMinus [4]Action_PriPKRST [5]Action_PriABS [6]Action_PriZERO [7]Action_PriPrset [8]Action_PAMxRST [9]Action_PAMnRST
(contd...)	[10]Action_PMxMnRST [11]Action_Print [12]Action_PBMxRST [13]Action_PBMnRST [14]Action_SecTRACK [15]Action_SecPEAKPlus [16]Action_SecPEAKMinus [17]Action_SecPKRST [18]Action_SecABS [19]Action_SecZERO [20]Action_SecPrset
(contd...)	[21]Action_SAMxRST [22]Action_SAMnRST [23]Action_SBMxRST [24]Action_SBMnRST [25]Action_SMxMnRST
ORBIT_NW_GUI_MODE	[0]OFF [1]ON
ACSASCIIMODE	[0]PRI [1]SEC [2]Both
ACSASCIIMODESI400	[0]CHA [1]CHB [2]CHC [3]CHD [4]ALL
LASER_FILTER	[0]LTH_FILTER_20K [1]LTH_FILTER_4K [2]LTH_FILTER_1K [3]LTH_FILTER_200 [4]LTH_FILTER_25 [5]LTH_FILTER_1 [6]LTH_FILTER_0p1
DO_CONFIG_SI400	[0]ANYALARM [1]NOALARMS [2]ANYHI_ALM [3]ANYLO_ALM [4]SI400HighAlarm1 [5]SI400LowAlarm1 [6]SI400HighAlarm2 [7]SI400LowAlarm2 [8]SI400HighAlarm3 [9]SI400LowAlarm3
(contd...)	[10]SI400HighAlarm4 [11]SI400LowAlarm4 [12]Mod1URange [13]Mod2URange [14]Mod3URange [15]Mod4URange [16]Mod1ORange [17]Mod2ORange [18]Mod3ORange [19]Mod4ORange
DI_CONFIG_SI400	[0]OFF [1]MAXMNRST_RstAll [2]MAXMNRST_RstAllMax [3]MAXMNRST_RstAllMin [4]MAXMNRST_RstAMax [5]MAXMNRST_RstAMin [6]MAXMNRST_RstBMax [7]MAXMNRST_RstBMin [8]MAXMNRST_RstCMax [9]MAXMNRST_RstCMin
(contd...)	[10]MAXMNRST_RstDMax [11]MAXMNRST_RstDMin [12]Action_Print [13]PRESETALL [14]ZEROALL [15]ABSALL [16]CHA_ZERO [17]CHA_PRESET [18]CHA_ABS [19]CHB_ZERO [20]CHB_PRESET
(contd...)	[21]CHB_ABS [22]CHC_ZERO [23]CHC_PRESET [24]CHC_ABS [25]CHD_ZERO [26]CHD_PRESET [27]CHD_ABS [28]MAXMNRST_RstAMxMn [29]MAXMNRST_RstBMxMn [30]MAXMNRST_RstCMxMn [31]MAXMNRST_RstDMxMn
(contd...)	
SI400CHDISPOPT	[0]Value [1]MaxMinusMin