

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.



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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		PRODUCT_TYPE	UNSIGNED_SHORT	1	0		Product type
3		Units	ALWAYS		UNITS	UNSIGNED_SHORT	1	0		Units 0=mm 1=Inches
5		saveSett	ALWAYS			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		PHIA1m	SI100orSI200			SIGNED_LONG_LONG	4	6		High alarm level for Channel A (built in probe) in current units
23		PLoA1m	SI100orSI200			SIGNED_LONG_LONG	4	6		Low alarm level for Channel A (built in probe) in current units
27		DO1Func	SI100orSI200		DO_CONFIG	UNSIGNED_SHORT	1	0		Configures operation of digital output
28		DO2Func	SI100orSI200		DO_CONFIG	UNSIGNED_SHORT	1	0		Configures operation of digital output
29		DO3Func	SI100orSI200		DO_CONFIG	UNSIGNED_SHORT	1	0		Configures operation of digital output
32		ChanSync	SI100orSI200		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 function 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		PMXmRST	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		PBmRST	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 function 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		SBmRST	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		SMXmRST	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		SHiA1m	SI200only			SIGNED_LONG_LONG	4	6		High alarm level for Channel B (external probe) in current units
63		SLoA1m	SI200only			SIGNED_LONG_LONG	4	6		Low alarm level for Channel B (external probe) in current units
70		DefLVl	ALWAYS		CURRENT_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_SHORT	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	UNSIGNED_SHORT	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	UNSIGNED_SHORT	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	UNSIGNED_SHORT	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 - channel B Label
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	ACSASCIIIMODE	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 / LogicSV operation of digital outputs
152		DO1_Add	ALWAYS		L3	POINTER	UNSIGNED_SHORT	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	UNSIGNED_SHORT	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	UNSIGNED_SHORT	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		ZerNow	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 Measurement block rounding - set this parameter to units of rounding required.
260		RstMxMin	ALWAYS		L1	UNSIGNED_SHORT	1	0		Global UserValue linked to Measurement 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		ChanMode	ALWAYS	INTERNAL_ONLY		CHANCOND_Mode	UNSIGNED_SHORT	1	0	Current output mode (0=ABS / 1=TARE / 2=PRE)
906		Output	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	Output Value
1034		1034	SI200only	INTERNAL_ONLY		SIGNED_LONG_LONG	4	6		Output Value

Line	Name	Access	Index	Unit	Default	Description		
1050	FBS_MEASCOMP1_ChanNodeIndex	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	
1061	PMXA	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_ChanNodeIndex	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	SMXA	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.	
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	LtBttnAcn	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)
1507	LtBttnAcn	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	CurMode	SI200orHigher	INTERNAL_ONLY	ORBIT_MODE	UNSIGNED_SHORT	1	0	Current Orbit Network Mode. Use 'ModeRequired' to control actual mode.
2201	NewMode	SI200orHigher	L3	ORBIT_MODE	UNSIGNED_SHORT	1	0	User set required 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	ScanT	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)	
2400	ReScale	ALWAYS	MODULE_IS_AIM_OR_LT	SIGNED_LONG_LONG	4	6	Rescaling for Orbit Module1 - New Scale parameter	
2404	ReScale	SI200orHigher	MODULE_IS_AIM_OR_LT	SIGNED_LONG_LONG	4	6	Rescaling for Orbit Module2 - New Scale parameter	
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	LsrLVlct	Module_Is_LTH_Type	INTERNAL_ONLY	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	LsrLVlct	Module_Is_LTH_Type	INTERNAL_ONLY	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	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	OFF_ON	UNSIGNED_SHORT	1	0	Laser Enable state (1=on / 0 = off) for Channel 1	
2692	Ch2LsrEn	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	

#### Enumeration Table

Enumeration Name	Enumeration Values
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]m1
CHANCOND_Mode	[0]ABS [1]TARE [2]PRE
PEAK_MODE	[0]TRACK [1]PEAKPLUS [2]PEAKMINUS
READING_STATUS	[0]OK [18]UNDERRANGE0 [19]OVERRANGE0
(contd...)	
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...)	
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...)	
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]HighAlarm1 [5]LowAlarm1 [6]STRING_INDEX_NoAlarms1 [7]SEC_RANGE_ERR
COMMONWORDLENGTH	[0]8 [1]9
COMMSSTOPBITS	[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_Track [2]Action_PrimaryPeakPlus [3]Action_PrimaryPeakMinus [4]Action_PrimaryPkrst [5]Action_PrimaryAbs [6]Action_PrimaryZero [7]Action_PrimaryPreset [8]Action_PamxRst [9]Action_Pamnrst
(contd...)	
ORBIT_NW_GUI_MODE	[21]Action_SamxRst [22]Action_SamnRst [23]Action_SbmxRst [24]Action_SbmnRst [25]Action_SmXmRst
(contd...)	
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_200 [4]LTH_FILTER_25 [5]LTH_FILTER_1 [6]LTH_FILTER_0p1
DO_CONFIG_SI400	[0]ANYALARM [1]NOALARMS [2]ANYHIL_ALM [3]ANYLO_ALM [4]SI400HighAlarm1 [5]SI400LowAlarm1 [6]SI400HighAlarm2 [7]SI400LowAlarm2 [8]SI400HighAlarm3 [9]SI400LowAlarm3
(contd...)	
DI_CONFIG_SI400	[0]OFF [1]MAXMNRST_RstAll [2]MAXMNRST_RstAllMax [3]MAXMNRST_RstAllMin [4]MAXMNRST_RstAllMax [5]MAXMNRST_RstAllMin [6]MAXMNRST_RstBmax [7]MAXMNRST_RstBmin [8]MAXMNRST_RstCmax [9]MAXMNRST_RstCmin
(contd...)	
(contd...)	[10]MAXMNRST_RstDmax [11]MAXMNRST_RstDmin [12]Action_Print [13]PRESETALL [14]ZEROALL [15]ABSALL [16]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_RstAllMax [29]MAXMNRST_RstAllMin [30]MAXMNRST_RstCmax [31]MAXMNRST_RstCmin
(contd...)	
SI400CHDISPOPT	[0]Value [1]MaxMinusMin

