GARD PTX – ZLB30B – Modbus register map

Interface settings	Protocol	Baud	Parity	Data bits	Stop bits
	Modbus RTU	38400	Even	8	1

Register name	Description	Register type	R/W	Modbus address
Device informations				
Board ID	Most significant byte: CRP board class Less significant byte: CRP board ID	Unsigned short	R	40001
FW version	Firmware version: V1.V2.V3 V1 = first word, V2 = second word, V3 = third word	Unsigned short x 3	R	40002 40003 40004
Serialnumber	Device serial number String of ASCII characters	Char x 14	R	40005 40006 40007 40008 40009 40010 40011
Automation status				
Gate status	0=Unknown 3=Calibrating 17=Closed 16=Open 18=Partial open 19=Stoppe 32=Opening 33=Closing 34 Partial opening	Unsigned short	R	40101
Gate position	255=Unknown Opening position from 0% to 100%	Unsigned short	R	40102
Status flags	Automation status flags: the read value is a bit mask where each bit means a specific status. For the bit description see the status flags alias section .	Unsigned short	R	40103
Last error	Last occurred error code	Unsigned short	R	40104
Operation counter	Total executed open and close operations	Unsigned long (LSW first)	R	40105 40106
Partial counter	Partial operations counter (executed from the last operation reset)	Unsigned long (LSW first)	R	40107 40108
Inputs status	Inputs status: the read value is a bit mask where each bit reports the status of a specific input. For the bit description see the input status section.	Unsigned short	R	40109
Board temperature	Measured board temperature (°C)	Signed short	R	40110
Commands				
Stop	Command STOP	Discrete output	W	1
Open	Command OPEN	Discrete output	W	2
Partial open	Command PARTIAL OPEN	Discrete output	W	3
Close	Command CLOSE	Discrete output	W	4
Step	Commnad STEP	Discrete output	W	5
Sequential	Command SEQUENTIAL	Discrete output	W	6
Reset	Board reset	Discrete output	W	8
Status flags alias (is the same of the "Status flags" register – 40103)				
	Status flag bit 0: Need calibration	Discrete input	R	10103
	Status flag bit 1: FA input active	Discrete input	R	10104
	Status flag bit 2: FC input active	Discrete input	R	10105
	Status flag bit 3: Door open	Discrete input	R	10106
	Status flag bit 4: Motor unblocked	Discrete input	R	10107
	Status flag bit 5: Doom fallen	Discrete input	R	10108
	Status flag bit 6: Obstacle while opening	Discrete input	R	10109
	Status flag bit 7: Obstacle while closing	Discrete input	R	10110
	Status flag bit 8: Executing	Discrete input	R	10111
	Status flag bit 9: Is opening	Discrete input	R	10112
	Status flag bit 10: Is closing	Discrete input	R	10113
	Status flag bit 11: Need maintenance	Discrete input	R	10114
Inputs status alias (is the same of the "Input status" register – 40109)				
	Input status bit 0: input 2-3			10119
	Input status bit 1: input 2-3P			10120
	Input status bit 2: input 2-4			10121
	Input status bit 3: input 2-7			10122
	Input status bit 4: input FA			10123
	Input status bit 5: input FC			10124
	Input status bit 6: -			10125
	Input status bit 7: -			10126
	Input status bit 8: input 2-1			10127
	Input status bit 9: input Cx			10128
	Input status bit 10: input Cy			10129
	Input status bit 11: input Cz			10130