

PROFINET Parameter Records List

Parameter number	Group	Name	Data Type	Unit	Size	ByteOffset	BitOffset	DefaultValue	Readonly	cyclic data
1008	Error code	Error code	Unsigned16		2	0	0	0	ro	t
1024	Controlword	Controlword	Unsigned16		2	0	0	0	rw	r
1040	Statusword	Statusword	Unsigned16		2	0	0	0	ro	t
1440	Quick stop option code	Quick stop option code	Integer16		2	0	0	512	rw	
1536	Modes of operation	Modes of operation	Integer8		1	0	0	0	rw	r
1552	Modes of operation display	Modes of operation display	Integer8		1	0	0	0	ro	t
1568	Position demand value	Position demand value	Integer32	Inc	4	0	0	0	ro	t
1600	Position actual value	Position actual value	Integer32	Inc	4	0	0	0	ro	t
1616	Following error window	Following error window	Unsigned32	Inc	4	0	0	4294967295	rw	r
1632	Following error time out	Following error time out	Unsigned16	ms	2	0	0	25600	rw	r
1648	Position window	Position window	Unsigned32	Inc	4	0	0	4294967295	rw	r
1664	Position window time	Position window time	Unsigned16	ms	2	0	0	0	rw	r
1712	Velocity demand value	Velocity demand value	Integer32	rpm	4	0	0	0	ro	t
1728	Velocity actual value	Velocity actual value	Integer32	rpm	4	0	0	0	ro	t
1744	Velocity window	Velocity window	Unsigned16	rpm	2	0	0	65535	rw	r
1760	Velocity window time	Velocity window time	Unsigned16	ms	2	0	0	0	rw	r
1776	Velocity threshold	Velocity threshold	Unsigned16	rpm	2	0	0	0	rw	r
1792	Velocity threshold time	Velocity threshold time	Unsigned16	ms	2	0	0	0	rw	r
1808	Target Torque	Target Torque	Integer16		2	0	0	0	rw	r
1824	Max torque	Max torque	Unsigned16		2	0	0	47115	rw	r
1840	Max current	Max current	Unsigned16		2	0	0	47115	rw	r
1856	Torque demand	Torque demand	Integer16		2	0	0	0	ro	t
1872	Motor rated current	Motor rated current	Unsigned32	mA	4	0	0	16777216	rw	
1888	Motor rated torque	Motor rated torque	Unsigned32	mNm	4	0	0	16777216	rw	
1904	Torque actual value	Torque actual value	Integer16		2	0	0	0	ro	t
1936	DC link circuit voltage	DC link circuit voltage	Unsigned32	mV	4	0	0	0	ro	t
1952	Target position	Target position	Integer32	Inc	4	0	0	0	rw	r
1969	Position range limit	Min position range limit	Integer32	Inc	8	2	0	128	rw	r
1970	Position range limit	Max position range limit	Integer32	Inc	8	6	0	-129	rw	r
1984	Home offset	Home offset	Integer32	Inc	4	0	0	0	rw	r
2001	Software position limit	Min position limit	Integer32	Inc	8	2	0	128	rw	r
2002	Software position limit	Max position limit	Integer32	Inc	8	6	0	-129	rw	r
2016	Polarity	Polarity	Unsigned8		1	0	0	0	rw	r
2048	Max motor speed	Max motor speed	Unsigned32	rpm	4	0	0	3892510720	rw	r
2064	Profile velocity	Profile velocity	Unsigned32	rpm	4	0	0	0	rw	r
2096	Profile acceleration	Profile acceleration	Unsigned32	rpm/s	4	0	0	0	rw	r
2112	Profile deceleration	Profile deceleration	Unsigned32	rpm/s	4	0	0	0	rw	r
2128	Quick stop deceleration	Quick stop deceleration	Unsigned32	rpm/s	4	0	0	270991360	rw	r
2144	Motion profile type	Motion profile type	Integer16		2	0	0	0	rw	r
2160	Torque slope	Torque slope	Unsigned32		4	0	0	0	rw	r
2176	Torque profile type	Torque profile type	Integer16		2	0	0	0	rw	r
2321	Gear ratio	Motor revolutions	Unsigned32		8	2	0	16777216	rw	r
2322	Gear ratio	Shaft revolutions	Unsigned32		8	6	0	16777216	rw	r
2337	Feed constant	Feed	Unsigned32		8	2	0	4294967295	rw	r

2338	Feed constant	Shaft revolutions	Unsigned32		8	6	0	16777216	rw	r
2432	Homing method	Homing method	Integer8		1	0	0	0	rw	r
2449	Homing speeds	Speed during search for switch	Unsigned32	rpm	8	2	0	0	rw	r
2450	Homing speeds	Speed during search for zero	Unsigned32	rpm	8	6	0	0	rw	r
2464	Homing acceleration	Homing acceleration	Unsigned32	rpm/s	4	0	0	0	rw	r
2704	SI unit velocity	SI unit velocity	Unsigned32		4	0	0	4699136	rw	
2832	Velocity offset	Velocity offset	Integer32	rpm	4	0	0	0	rw	r
2848	Torque offset	Torque offset	Integer16		2	0	0	0	rw	r
2944	Touch probe function	Touch probe function	Unsigned16		2	0	0	0	rw	r
2960	Touch probe status	Touch probe status	Unsigned16		2	0	0	0	ro	t
2976	Touch probe 1 positive edge	Touch probe 1 positive edge	Integer32		4	0	0	0	ro	t
2992	Touch probe 1 negative edge	Touch probe 1 negative edge	Integer32		4	0	0	0	ro	t
3344	Touch probe time stamp 1 positive value	Touch probe time stamp 1 positive value	Unsigned32		4	0	0	0	ro	t
3360	Touch probe time stamp 1 negative value	Touch probe time stamp 1 negative value	Unsigned32		4	0	0	0	ro	t
3872	Positioning option code	Positioning option code	Unsigned16		2	0	0	0	rw	tr
3904	Following error actual value	Following error actual value	Integer32	Inc	4	0	0	0	ro	t
4000	Control effort	Control effort	Integer32		4	0	0	0	ro	t
4032	Position demand internal value	Position demand internal value	Integer32	Inc	4	0	0	0	ro	t
4048	Digital inputs	Digital inputs	Unsigned32		4	0	0	0	ro	t
4065	Digital outputs	Physical outputs	Unsigned32		8	2	0	0	rw	r
4066	Digital outputs	Bit mask	Unsigned32		8	6	0	0	rw	r
4080	Target velocity	Target velocity	Integer32	rpm	4	0	0	0	rw	r
12320	Supported drive modes	Supported drive modes	Unsigned32		4	0	0	2902655744	ro	t
13329	Safety statusword	Byte 1	Unsigned8		2	2	0	0	ro	t
13330	Safety statusword	Byte 2	Unsigned8		2	3	0	0	ro	t
16400	Commutation angle offset	Commutation angle offset	Integer16		2	0	0	0	rw	
16416	Position control strategy	Position control strategy	Unsigned16		2	0	0	512	rw	
16433	Motor specific settings	Pole pairs	Unsigned8		1	2	0	1	rw	
16434	Motor specific settings	Torque constant	Integer32	uNm/A	4	3	0	16777216	rw	
16435	Motor specific settings	Phase resistance	Integer32	uOhm	4	7	0	16777216	rw	
16436	Motor specific settings	Phase inductance	Integer32	uHenry	4	11	0	16777216	rw	
16437	Motor specific settings	Motor phases inverted	Bit		0	15	0	0	rw	
16438	Motor specific settings	Difference of Ld and Lq inductance	Unsigned32	uHenry	4	16	0	0	rw	
16449	Brake options	Pull voltage	Unsigned32	mV	4	2	0	0	rw	
16450	Brake options	Hold voltage	Unsigned32	mV	4	6	0	0	rw	
16451	Brake options	Pull time	Unsigned16	ms	2	10	0	0	rw	
16452	Brake options	Release strategy	Unsigned8		1	12	0	0	rw	
16453	Brake options	Controller disable delay	Unsigned16	ms	2	13	0	25600	rw	
16454	Brake options	DC bus voltage (deprecated)	Unsigned16	V	2	15	0	0	ro	
16455	Brake options	Brake status	Unsigned8		1	17	0	0	rw	
16456	Brake options	Minimum displacement (pin brake)	Unsigned32	Inc	4	18	0	0	rw	
16457	Brake options	Percentage of Rated Current (pin brake)	Unsigned16		2	22	0	25600	rw	
16458	Brake options	Output voltage	Unsigned16	mV	2	24	0	0	rw	r
16459	Brake options	Switching frequency	Unsigned8		1	26	0	0	rw	r
16460	Brake options	Initial movement direction (pin brake)	Integer8		1	27	0	1	rw	

16465	Homing Options	Home Position	Integer32	Inc	4	2	0	0	ro	
16466	Homing Options	Restore Home Position when loading configuration	Unsigned8		1	6	0	0	rw	
16467	Homing Options	Torque Threshold for Homing on end stop	Unsigned16		2	7	0	0	rw	
16468	Homing Options	Offset From Endstop	Unsigned16	Inc	2	9	0	0	rw	
16481	Protection	Undervoltage setpoint	Integer32	V	4	2	0	0	rw	
16482	Protection	Overvoltage setpoint	Integer32	V	4	6	0	-129	rw	
16483	Protection	Overcurrent setpoint	Integer32	mA	4	10	0	-129	rw	
16513	Cogging torque compensation	State	Integer16		2	2	0	0	ro	
16514	Cogging torque compensation	Enabled	Integer16		2	4	0	0	rw	
16529	Commutation offset	State	Integer16		2	2	0	0	rw	
16530	Commutation offset	Applied percent of rated torque	Integer16		2	4	0	25600	rw	
16531	Commutation offset	Measurement method	Integer8		1	6	0	0	rw	
16532	Commutation offset	Phasing controller Kp	Float32		4	7	0 0		rw	
16533	Commutation offset	Phasing controller Ki	Float32		4	11	0 0		rw	
16534	Commutation offset	Phasing controller Kd	Float32		4	15	0 0		rw	
16545	I2t and Stall protection	Enabled	Unsigned8		1	2	0	2	rw	
16546	I2t and Stall protection	Peak time	Unsigned32	ms	4	3	0	3087728640	rw	
16547	I2t and Stall protection	Motor heat index	Unsigned8		1	7	0	0	ro	
16548	I2t and Stall protection	Protection active	Bit		0	8	0	0	ro	
16549	I2t and Stall protection	Motor winding type	Unsigned8		1	9	0	0	rw	
16560	Max power	Max power	Unsigned32	W	4	0	0	4294967167	rw	
16576	Overspeed protection limit	Overspeed protection limit	Unsigned8		1	0	0	20	rw	
16592	System polarity	System polarity	Unsigned8		1	0	0	0	rw	
16609	Logging	State	Unsigned8		1	2	0	0	rw	
16705	Torque window	Value	Unsigned16		2	2	0	65535	rw	
16706	Torque window	Time	Unsigned16	ms	2	4	0	0	rw	
16721	Velocity feed forward	Gain	Integer16		2	2	0	0	rw	
16722	Velocity feed forward	Cutoff frequency	Unsigned16	Hz	2	4	0	5120	rw	
16753	Following error option codes	Position following error option code	Unsigned8		1	2	0	0	rw	
16754	Following error option codes	Velocity following error option code	Unsigned8		1	3	0	0	rw	
16769	Velocity following error	Window	Unsigned16	rpm	2	2	0	65535	rw	
16770	Velocity following error	Time out	Unsigned16	ms	2	4	0	25600	rw	
16771	Velocity following error	Actual value	Integer32	rpm	4	6	0	0	ro	t
16784	Total motor current	Total motor current	Integer16		2	0	0	0	ro	t
16913	Velocity feedback filter	Type	Unsigned8		1	2	0	0	rw	
16914	Velocity feedback filter	Cutoff frequency	Unsigned32	Hz	4	3	0	4093706240	rw	
16929	Position feedback filter	Type	Unsigned8		1	2	0	0	rw	
16930	Position feedback filter	Cutoff frequency	Unsigned32	Hz	4	3	0	3892510720	rw	
16945	Notch filter	Enabled	Bit		0	2	0	0	rw	
16946	Notch filter	Center frequency	Unsigned16	Hz	2	3	0	59395	rw	
16947	Notch filter	Rejection band	Unsigned16	Hz	2	5	0	2560	rw	
16948	Notch filter	Depth	Unsigned16		2	7	0	2560	rw	
17009	Control input FIR filter	Enabled	Bit		0	2	0	1	rw	
17010	Control input FIR filter	Order	Unsigned16		2	3	0	7936	rw	
17153	Core temperature	Measured temperature	Integer32	mC	4	2	0	0	ro	t

17169	Drive temperature	Measured temperature	Integer32	mC	4	2	0	0	ro	t
17281	External scaled measurement	Scaled measurement value	Float32	1	4	2	0 0		ro	t
17282	External scaled measurement	Analog input	Unsigned8		1	6	0	0	rw	
17283	External scaled measurement	Resistance	Unsigned32	Ohm	4	7	0	0	rw	
17284	External scaled measurement	Constant a0	Float32		4	11	0 0		rw	
17285	External scaled measurement	Constant a1	Float32		4	15	0 0		rw	
17286	External scaled measurement	Constant a2	Float32		4	19	0 0		rw	
17287	External scaled measurement	Constant a3	Float32		4	23	0 0		rw	
17288	External scaled measurement	Constant a4	Float32		4	27	0 0		rw	
17289	External scaled measurement	Constant a5	Float32		4	31	0 0		rw	
17290	External scaled measurement	Cutoff frequency	Unsigned16	Hz	2	35	0	62465	rw	
17291	External scaled measurement	Upper error threshold	Float32		4	37	0	16744263	rw	
17292	External scaled measurement	Lower error threshold	Float32		4	41	0 0		rw	
17393	Error report	Description	VisibleString		8	2	0		ro	tr
17408	Input counter	Input counter	Unsigned32	Inc	4	0	0	0	ro	t
17425	Motor current	Vector amplitude	Integer32	mA	4	2	0	0	ro	t
17426	Motor current	Phase advance angle	Integer32	YYYY	4	6	0	0	ro	t
17665	Joint torque controller	Controller Kp	Float32		4	2	0 0		rw	r
17666	Joint torque controller	Controller Ki	Float32		4	6	0 0		rw	r
17667	Joint torque controller	Controller Kd	Float32		4	10	0 0		rw	r
17668	Joint torque controller	Controller integral limit	Unsigned32		4	14	0	0	rw	r
17680	Target joint torque	Target joint torque	Integer32	mNm	4	0	0	0	rw	r
17696	Joint torque demand value	Joint torque demand value	Integer32	mNm	4	0	0	0	ro	t
17712	Joint torque offset	Joint torque offset	Integer32	mNm	4	0	0	0	rw	r
17728	Max joint torque	Max joint torque	Unsigned32	mNm	4	0	0	0	rw	r
17921	Impedance controller	Stiffness	Integer32	mNm/rad	4	2	0	0	rw	r
17922	Impedance controller	Damping	Integer32		4	6	0	0	rw	r
17923	Impedance controller	Joint torque controller Kp	Float32		4	10	0 0		rw	r
17924	Impedance controller	Joint torque controller Ki	Float32		4	14	0 0		rw	r
17925	Impedance controller	Joint torque controller Kd	Float32		4	18	0 0		rw	r
17926	Impedance controller	Joint torque controller integral limit	Unsigned32	mNm	4	22	0	0	rw	r
19985	High resolution data	Data 1	Unsigned8		100	2	0	0	ro	t
19986	High resolution data	Data 2	Unsigned8		100	27	0	0	ro	t
19987	High resolution data	Data 3	Unsigned8		100	52	0	0	ro	t
19988	High resolution data	Data 4	Unsigned8		100	77	0	0	ro	t
20224	Timestamp	Timestamp	Unsigned32	us	4	0	0	0	ro	t
20256	Assigned name	Assigned name	VisibleString		50	0	0		rw	
21761	Torque sensor configuration	Type	Unsigned8		1	2	0	0	rw	
21762	Torque sensor configuration	Polarity	Unsigned8		1	3	0	0	rw	
21763	Torque sensor configuration	Channel	Unsigned8		1	4	0	1	rw	
21764	Torque sensor configuration	Gain	Float32		4	5	0 0		rw	
21765	Torque sensor configuration	Offset	Integer32	mNm	4	9	0	0	rw	
21766	Torque sensor configuration	Coefficient K1	Float32		4	13	0 0		rw	
21767	Torque sensor configuration	Coefficient K2	Float32		4	17	0 0		rw	
21768	Torque sensor configuration	Coefficient K3	Float32		4	21	0 0		rw	

21769	Torque sensor configuration	Coefficient K4	Float32		4	25	0 0	rw	
21770	Torque sensor configuration	Coefficient K5	Float32		4	29	0 0	rw	
21776	Torque sensor value	Torque sensor value	Integer32	mNm	4	0	0	ro	t
21793	Torque sensor feedback filter	Type	Unsigned8		1	2	0	rw	
21794	Torque sensor feedback filter	Cutoff frequency	Unsigned32	Hz	4	3	0	4093706240	rw
24833	GPIO pin configuration	Digital IO 1	Unsigned8		1	2	0	rw	
24834	GPIO pin configuration	Digital IO 2	Unsigned8		1	3	0	rw	
24835	GPIO pin configuration	Digital IO 3	Unsigned8		1	4	0	rw	
24836	GPIO pin configuration	Digital IO 4	Unsigned8		1	5	0	rw	
24837	GPIO pin configuration	Digital IO 5	Unsigned8		1	6	0	rw	
24838	GPIO pin configuration	Digital IO 6	Unsigned8		1	7	0	rw	
24839	GPIO pin configuration	Digital IO 7	Unsigned8		1	8	0	rw	
24849	GPIO output events	Timestamp setpoint	Unsigned32		4	2	0	rw	r
24865	GPIO input actions	Timestamp on rising edge	Unsigned32		4	2	0	ro	t
24881	GPIO position trigger	Position setpoint	Integer32	Inc	4	2	0	rw	r
24882	GPIO position trigger	Target encoder	Unsigned8		1	6	0	rw	
24883	GPIO position trigger	Pulse width	Unsigned8	ms	1	7	0	rw	
24897	GPIO global options	Voltage level	Unsigned8		1	2	0	1	rw
24913	GPIO addressable LED control	LED color	Unsigned32		4	2	0	rw	
25089	Torque controller	Controller Kp (disabled)	Float32		4	2	0	4201541	rw
25090	Torque controller	Controller Ki (disabled)	Float32		4	6	0	4201543	rw
25091	Torque controller	Controller Kd (disabled)	Float32		4	10	0 0	rw	
25092	Torque controller	Field weakening enabled	Unsigned32		4	14	0	rw	
25093	Torque controller	Field weakening percentage	Unsigned32		4	18	0	rw	
25094	Torque controller	Field weakening starting speed (deprecated)	Unsigned32	rpm	4	22	0	rw	
25095	Torque controller	Field weakening ending speed (deprecated)	Unsigned32	rpm	4	26	0	rw	
25096	Torque controller	Commutation angle measurement delay	Unsigned32	us	4	30	0	rw	
25097	Torque controller	Switching frequency	Unsigned8		1	34	0	rw	r
25098	Torque controller	Settling time	Unsigned16	us	2	35	0	53255	rw
25099	Torque controller	Damping ratio	Unsigned16		2	37	0	53255	rw
25100	Torque controller	Encoder source	Unsigned8		1	39	0	rw	
25101	Torque controller	Virtual Braking Chopper Enabled	Unsigned8		1	40	0	rw	
25102	Torque controller	Virtual Braking Chopper Gain	Unsigned32		4	41	0	rw	
25103	Torque controller	Virtual Braking Chopper Voltage Level	Unsigned32	mV	4	45	0	rw	
25104	Torque controller	MTPA Enabled	Unsigned8		1	49	0	rw	
25105	Torque controller	Virtual Braking Chopper Notification Level	Unsigned8		1	50	0	1	rw
25106	Torque controller	Active short circuit duration time	Unsigned32	ms	4	51	0	3892510720	rw
25121	Velocity controller	Controller Kp	Float32		4	2	0 0	rw	r
25122	Velocity controller	Controller Ki	Float32		4	6	0 0	rw	r
25123	Velocity controller	Controller Kd	Float32		4	10	0 0	rw	r
25124	Velocity controller	Controller integral limit	Unsigned32	mNm	4	14	0	rw	r
25125	Velocity controller	Encoder source	Unsigned8		1	18	0	rw	
25153	Position controller	Position loop Kp	Float32		4	2	0 0	rw	r
25154	Position controller	Position loop Ki	Float32		4	6	0 0	rw	r
25155	Position controller	Position loop Kd	Float32		4	10	0 0	rw	r

25156	Position controller	Position loop integral limit	Unsigned32	rpm	4	14	0	0	rw	r
25157	Position controller	Velocity loop Kp	Float32		4	18	0	0	rw	r
25158	Position controller	Velocity loop Ki	Float32		4	22	0	0	rw	r
25159	Position controller	Velocity loop Kd	Float32		4	26	0	0	rw	r
25160	Position controller	Velocity loop integral limit	Unsigned32	mNm	4	30	0	0	rw	r
25161	Position controller	Encoder source	Unsigned8		1	34	0	0	rw	
25185	Gain scheduling	Enabled	Bit		0	2	0	0	rw	
25186	Gain scheduling	Threshold velocity 0	Unsigned32	rpm	4	3	0	0	rw	
25187	Gain scheduling	Position loop Kp 0	Float32		4	7	0	0	rw	
25188	Gain scheduling	Position loop Ki 0	Float32		4	11	0	0	rw	
25189	Gain scheduling	Position loop Kd 0	Float32		4	15	0	0	rw	
25190	Gain scheduling	Position loop integral limit 0	Unsigned32	rpm	4	19	0	0	rw	
25191	Gain scheduling	Velocity loop Kp 0	Float32		4	23	0	0	rw	
25192	Gain scheduling	Velocity loop Ki 0	Float32		4	27	0	0	rw	
25193	Gain scheduling	Velocity loop Kd 0	Float32		4	31	0	0	rw	
25194	Gain scheduling	Velocity loop integral limit 0	Unsigned32	mNm	4	35	0	0	rw	
25195	Gain scheduling	Threshold velocity 1	Unsigned32	rpm	4	39	0	0	rw	
25196	Gain scheduling	Position loop Kp 1	Float32		4	43	0	0	rw	
25197	Gain scheduling	Position loop Ki 1	Float32		4	47	0	0	rw	
25198	Gain scheduling	Position loop Kd 1	Float32		4	51	0	0	rw	
25199	Gain scheduling	Position loop integral limit 1	Unsigned32	rpm	4	55	0	0	rw	
25200	Gain scheduling	Velocity loop Kp 1	Float32		4	59	0	0	rw	
25201	Gain scheduling	Velocity loop Ki 1	Float32		4	63	0	0	rw	
25202	Gain scheduling	Velocity loop Kd 1	Float32		4	67	0	0	rw	
25203	Gain scheduling	Velocity loop integral limit 1	Unsigned32	mNm	4	71	0	0	rw	
25345	Encoder 1 configuration	Sensor port	Unsigned8		1	2	0	0	rw	
25346	Encoder 1 configuration	Type	Unsigned8		1	3	0	0	rw	
25347	Encoder 1 configuration	Resolution	Unsigned32	Inc/rev	4	4	0	16777216	rw	
25348	Encoder 1 configuration	Zero velocity threshold	Unsigned32	us	4	8	0	2685337600	rw	
25349	Encoder 1 configuration	Polarity	Bit		0	12	0	0	rw	
25350	Encoder 1 configuration	Singleturn offset	Unsigned32	Inc	4	13	0	0	rw	
25351	Encoder 1 configuration	Access signal type	Bit		0	17	0	0	rw	
25352	Encoder 1 configuration	Clock frequency	Unsigned16	kHz	2	18	0	59395	rw	
25353	Encoder 1 configuration	Frame size	Unsigned8		1	20	0	1	rw	
25354	Encoder 1 configuration	Multiturn bits	Unsigned8		1	21	0	0	rw	
25355	Encoder 1 configuration	Multiturn first bit position	Unsigned8		1	22	0	0	rw	
25356	Encoder 1 configuration	Singleturn bits	Unsigned8		1	23	0	1	rw	
25357	Encoder 1 configuration	Singleturn first bit position	Unsigned8		1	24	0	0	rw	
25358	Encoder 1 configuration	Timeout	Unsigned8	us	1	25	0	36	rw	
25359	Encoder 1 configuration	CRC polynomial	Unsigned8		1	26	0	67	rw	
25360	Encoder 1 configuration	Maximum tbusy	Unsigned8	us	1	27	0	20	rw	
25361	Encoder 1 configuration	Status bits active value	Unsigned8		1	28	0	0	rw	
25362	Encoder 1 configuration	Parity type	Unsigned8		1	29	0	0	rw	
25363	Encoder 1 configuration	First clock delay	Unsigned16	us	2	30	0	0	rw	
25364	Encoder 1 configuration	Data ordering	Bit		0	32	0	0	rw	

25365	Encoder 1 configuration	Endianness	Bit		0	32	1	0	rw	
25366	Encoder 1 configuration	Index availability	Bit		0	32	2	1	rw	
25367	Encoder 1 configuration	Hall sensor port	Unsigned8		1	33	0	0	rw	
25368	Encoder 1 configuration	Sinewave cycles per revolution	Unsigned16		2	34	0	256	rw	
25369	Encoder 1 configuration	Sinewave resolution	Unsigned8	Inc	1	36	0	6	rw	
25370	Encoder 1 configuration	Sinusoidal output voltage	Unsigned8		1	37	0	2	rw	
25371	Encoder 1 configuration	Filter (disabled)	Unsigned8		1	38	0	2	rw	
25372	Encoder 1 configuration	Sampling frequency	Unsigned8		1	39	0	1	rw	
25377	Encoder 1 feedback	Raw position	Unsigned32	Inc	4	2	0	0	ro	t
25378	Encoder 1 feedback	Adjusted position	Integer32	Inc	4	6	0	0	ro	t
25379	Encoder 1 feedback	Velocity	Integer32	rpm	4	10	0	0	ro	t
25380	Encoder 1 feedback	Encoder status	Unsigned32		4	14	0	0	ro	
25409	Encoder 2 configuration	Sensor port	Unsigned8		1	2	0	0	rw	
25410	Encoder 2 configuration	Type	Unsigned8		1	3	0	0	rw	
25411	Encoder 2 configuration	Resolution	Unsigned32	Inc/rev	4	4	0	16777216	rw	
25412	Encoder 2 configuration	Zero velocity threshold	Unsigned32	us	4	8	0	2685337600	rw	
25413	Encoder 2 configuration	Polarity	Bit		0	12	0	0	rw	
25414	Encoder 2 configuration	Singleturn offset	Unsigned32	Inc	4	13	0	0	rw	
25415	Encoder 2 configuration	Access signal type	Bit		0	17	0	0	rw	
25416	Encoder 2 configuration	Clock frequency	Unsigned16	kHz	2	18	0	59395	rw	
25417	Encoder 2 configuration	Frame size	Unsigned8		1	20	0	1	rw	
25418	Encoder 2 configuration	Multiturn bits	Unsigned8		1	21	0	0	rw	
25419	Encoder 2 configuration	Multiturn first bit position	Unsigned8		1	22	0	0	rw	
25420	Encoder 2 configuration	Singleturn bits	Unsigned8		1	23	0	1	rw	
25421	Encoder 2 configuration	Singleturn first bit position	Unsigned8		1	24	0	0	rw	
25422	Encoder 2 configuration	Timeout	Unsigned8	us	1	25	0	36	rw	
25423	Encoder 2 configuration	CRC polynomial	Unsigned8		1	26	0	67	rw	
25424	Encoder 2 configuration	Maximum tbusy	Unsigned8	us	1	27	0	20	rw	
25425	Encoder 2 configuration	Status bits active value	Unsigned8		1	28	0	0	rw	
25426	Encoder 2 configuration	Parity type	Unsigned8		1	29	0	0	rw	
25427	Encoder 2 configuration	First clock delay	Unsigned16	us	2	30	0	0	rw	
25428	Encoder 2 configuration	Data ordering	Bit		0	32	0	0	rw	
25429	Encoder 2 configuration	Endianness	Bit		0	32	1	0	rw	
25430	Encoder 2 configuration	Index availability	Bit		0	32	2	1	rw	
25431	Encoder 2 configuration	Hall sensor port	Unsigned8		1	33	0	0	rw	
25432	Encoder 2 configuration	Sinewave cycles per revolution	Unsigned16		2	34	0	256	rw	
25433	Encoder 2 configuration	Sinewave resolution	Unsigned8	Inc	1	36	0	6	rw	
25434	Encoder 2 configuration	Sinusoidal output voltage	Unsigned8		1	37	0	2	rw	
25435	Encoder 2 configuration	Filter (disabled)	Unsigned8		1	38	0	2	rw	
25436	Encoder 2 configuration	Sampling frequency	Unsigned8		1	39	0	1	rw	
25441	Encoder 2 feedback	Raw position	Unsigned32	Inc	4	2	0	0	ro	t
25442	Encoder 2 feedback	Adjusted position	Integer32	Inc	4	6	0	0	ro	t
25443	Encoder 2 feedback	Velocity	Integer32	rpm	4	10	0	0	ro	t
25444	Encoder 2 feedback	Encoder status	Unsigned32		4	14	0	0	ro	
25864	Analog input 1	Analog input 1	Unsigned16		2	0	0	0	ro	t

25872	Analog input 2	Analog input 2	Unsigned16		2	0	0	0	ro	t
25880	Analog input 3	Analog input 3	Unsigned16		2	0	0	0	ro	t
25888	Analog input 4	Analog input 4	Unsigned16		2	0	0	0	ro	t
26112	Cyclic control input frequency	Cyclic control input frequency	Unsigned8		1	0	0	4	rw	
26505	Safety Module input diagnostics	Input 1	Bit		0	2	0	0	ro	
26506	Safety Module input diagnostics	Input 2	Bit		0	2	1	0	ro	
26625	Firmware	Core version	VisibleString		50	2	0		ro	
26632	Tuning command	Tuning command	Unsigned32		4	0	0	0	rw	r
26640	Tuning status	Tuning status	Unsigned32		4	0	0	0	rw	t
26648	User MOSI	User MOSI	Unsigned32		4	0	0	0	rw	r
26656	User MISO	User MISO	Unsigned32		4	0	0	0	rw	t
26664	Setup wizard completed	Setup wizard completed	Unsigned8		1	0	0	0	rw	
26881	TCP/IP Configuration	IP address	Unsigned32		4	2	0	0	rw	
26882	TCP/IP Configuration	Network mask	Unsigned32		4	6	0	0	rw	
26883	TCP/IP Configuration	Gateway address	Unsigned32		4	10	0	0	rw	
26884	TCP/IP Configuration	Name server	Unsigned32		4	14	0	0	rw	
26885	TCP/IP Configuration	Name server 2	Unsigned32		4	18	0	0	rw	
26886	TCP/IP Configuration	Domain name	VisibleString		50	22	0		rw	
26887	TCP/IP Configuration	Host name	VisibleString		50	72	0		rw	
28672	Device type	Device type	Unsigned32		4	0	0	2449539584	ro	
28800	Manufacturer device name	Manufacturer device name	VisibleString		50	0	0		ro	
28832	Manufacturer software version	Manufacturer software version	VisibleString		50	0	0		ro	
28929	Store parameters	Save all parameters	Unsigned32		4	2	0	0	rw	
28945	Restore default parameters	Restore all default parameters	Unsigned32		16	2	0	0	rw	
28946	Restore default parameters	Restore communication default parameters (disabled)	Unsigned32		16	6	0	0	rw	
28947	Restore default parameters	Restore application default parameters (disabled)	Unsigned32		16	10	0	0	rw	
28948	Restore default parameters	Restore manufacturer default parameters	Unsigned32		16	14	0	0	rw	
29057	Identity object	Vendor ID	Unsigned32		4	2	0	3525443584	ro	
29058	Identity object	Product Code	Unsigned32		4	6	0	17039360	ro	
29059	Identity object	Revision number	Unsigned32		4	10	0	16777233	ro	
29060	Identity object	Serial number	Unsigned32		4	14	0	0	ro	
29233	OS command	Command	Unsigned8		8	2	0	0	rw	
29234	OS command	Status	Unsigned8		1	10	0	0	ro	
29235	OS command	Response	Unsigned8		8	11	0	0	ro	
29248	OS command mode	OS command mode	Unsigned8		1	0	0	0	rw	