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Title	Imoticon ID700 Read only status parameters

Summary	This document gives information on the Imoticon ID700 read only status parameters.

NOTE: Please read this document in conjunction with the Imoticon ID700 Easy Start Guide and ID700 Advanced User Manual.

Overview

The Imoticon ID700 has a number of read only status parameters which can be used for monitoring and an aid to fault finding within the system.

The read only parameters are accessed by setting parameter P00-23 = 1 which allows access to all advanced parameter menus and parameters.

The table below shows the read only status parameters. Please see the Imoticon ID700 Advanced User Manual for read only status parameter descriptions.

The read only status parameters are shown on each logic diagram in the Advanced User Manual.

Parameter	Description	Range
	MENU 1	
P01.10	E-Pot reference	± Maximum frequency reference
P01.14	Reference selected	± Maximum frequency reference
P01.15	Preset speed bit 0	0 or 1
P01.16	Preset speed bit 1	0 or 1
P01.17	Preset speed bit 2	0 or 1
P01.18	Preset speed bit 3	0 or 1
P01.19	Preset speed selected	1 to 16

Parameter	Description	Range
P01.20	Analogue input 1 reference	± Maximum frequency reference
P01.21	Analogue input 2 reference	± Maximum frequency reference
P01.22	Run/Stop indicator	0 or 1
P01.23	Frequency arrival indicator	0 or 1
P01.24	Zero speed indicator	0 or 1
P01.25	Main speed source set to analogue input 1	0 or 1
P01.26	Main speed source set to analogue input 2	0 or 1
P01.27	User defined main auxiliary reference	± Maximum frequency reference
MENU 2		
P02.02	Ramp hold	0 or 1
P02.14	Acceleration time bit 0	0 or 1
P02.15	Acceleration time bit 1	0 or 1
P02.16	Deceleration time bit 0	0 or 1
P02.17	Deceleration time bit 1	0 or 1
P02.18	Jog selected	0 or 1
P02.19	Acceleration selector	1 to 4
P02.20	Deceleration selector	1 to 4
P02.29	E-Pot reset	0 or 1
P02.30	E-Pot up	0 or 1
P02.31	E-Pot down	0 or 1
P02.33	E-Pot output	-100.0% to 100.0%
MENU 3		
P03.19	Drive enable	0 or 1
P03.20	Run	0 or 1
P03.21	Not Stop	0 or 1
P03.22	Run forward	0 or 1
P03.23	Run reverse	0 or 1
P03.24	Forward/Reverse	0 or 1
P03.25	Jog forward	0 or 1
P03.26	Jog reverse	0 or 1
P03.27	Serial comms control word	0 to 65535
P03.30	Drive direction indicator	0 or 1
MENU 4		
P04.53	PLC finished indicator	0 or 1
P04.54	PLC recycle mode indicator	0 or 1
P04.55	PLC reset indicator	0 or 1
MENU 5		
P05.08	Motor speed	-18000rpm to 18000rpm
P05.10	Load speed	-180000rpm to 180000rpm
P05.11	Output frequency	± Maximum frequency reference
P05.12	Output voltage	0 to drive rated output voltage
P05.13	DC bus voltage	0 to model dependant
P05.14	Output current	0.0 to 3 X motor rated current

MENU 5		
P05.15	Torque producing current	± 3 X motor rated current
P05.16	Motor magnetising current	0.0 to 3 X motor rated current
P05.17	Output power	0.0% to 300.0%
P05.18	Running time – Years and days	0.000 to 9.364
P05.19	Running time – Hours and minutes	0.00 to 23.59
P05.20	MWh meter	0.0 to 999.9MWh
P05.21	kWh meter	0.00 to 99.99kWh
P05.24	Running costs	0 to 10000
P05.25	Heatsink temperature	-25°C to 127°C
P05.26	IGBT junction temperature	-25°C to 200°C
P05.27	Running indicator	0 or 1
P05.28	At or above rated load	0 or 1
P05.29	Control processor software version	0.00 to 99.99
P05.30	Power stage processor software version	0.00 to 99.99
P05.31	LCD keypad software version (if fitted)	0.00 to 99.99
P05.32	Input rectifier software version (if fitted)	0.00 to 99.99
MENU 7		
P07.22	Torque reference display	-300.0% to 300.0%
P07.24	Torque being limited indicator	0 or 1
MENU 8		
P08.16	Analogue input 1 current loss indicator	0 or 1
P08.17	Analogue input 1 signal level	0.0% to 100.0%
P08.18	Analogue input 2 signal level	0.0% to 100.0%
P08.19	Analogue output signal level	0.0% to 100.0%
MENU 9		
P09.38	Digital input 7 level of input frequency	-100.0% to 100.0%
P09.40	Digital input 1 state	0 or 1
P09.41	Digital input 2 state	0 or 1
P09.42	Digital input 3 state	0 or 1
P09.43	Digital input 4 state	0 or 1
P09.44	Digital input 5 state	0 or 1
P09.45	Digital input 6 state	0 or 1
P09.46	Digital input 7 state	0 or 1
P09.47	Relay 1 state	0 or 1
P09.48	Relay 2 state	0 or 1
P09.49	Digital output 1 state	0 or 1
P09.50	Digital output 2 state	0 or 1
MENU 10		
P10.13	Model code	0 to 255
P10.14	Drive status	0 to 65535
P10.16	Running > P10.15	0 or 1

MENU 11		
P11.01	Trip 1	0 to 99
P11.02	Trip 2	0 to 99
P11.03	Trip 3	0 to 99
P11.04	Trip 4	0 to 99
P11.05	Trip 5	0 to 99
P11.06	Trip 6	0 to 99
P11.07	Trip 7	0 to 99
P11.08	Trip 8	0 to 99
P11.09	Trip 9	0 to 99
P11.10	Last trip	0 to 99
P11.11	Last trip output frequency	± Maximum frequency reference
P11.12	Last trip current	0.0 to 2 X motor rated current
P11.13	Last trip DC Voltage	0 to model dependant
P11.14	Last trip digital input status	0 to 255
P11.15	Last trip digital output status	0 to 255
P11.16	Current trip	0 to 99
MENU 12		
P12.01	Drive healthy	0 or 1
P12.16	Under voltage indicator	0 or 1
P12.17	Overload accumulator On indicator	0 or 1
P12.18	Alarming indicator	0 or 1
MENU 14		
P14.11	Actual length	0 to 60000 unit length
P14.13	Actual length meets the reference	0 or 1
P14.16	Actual length meets reference number	0 or 1
P14.17	Actual number meets set number	0 or 1
MENU 15		
P15.18	PID feed forward reference level	-100.0% to 100.0%
P15.19	PID reference level	-100.0% to 100.0%
P15.20	PID feedback level	-100.0% to 100.0%
P15.21	PID error level	-100.0% to 100.0%
P15.22	PID output level	-100.0% to 100.0%
P15.34	PID sleep status indicator	0 or 1
MENU 16		
P16.20	Block 1 output indicator	0 or 1
P16.21	Block 2 output indicator	0 or 1
P16.22	Binary sum output level	0 to 255
MENU 17		
P17.32	Threshold block 1 output function	0 or 1
P17.33	Threshold block 2 output function	0 or 1
P17.34	Variable selector 1 output level	-100.0% to 100.0%
P17.35	Variable selector 2 output level	-100.0% to 100.0%
P17.36	Variable selector 3 output level	-100.0% to 100.0%

MENU 18		
P18.08	Brake logic indicator	0 or 1