Table 2. Index List

Index	Description
0 - 99	Settings Values, see Table 3.
90 - 95	Reserved.
96	Command – Restart FIS. Entering “01” will cause FIS to restart.
97	Firmware – Entering “01” will display “FE” followed by two pairs of digits followed by “FE”. For example, if the firmware was 0609 the controller will display “FE” “06” “09” “FE”.
98	Command – Restart auto configuration. Entering “01” sets the Control Box to “A1” keeping all previous values and then re-learns the encoder count.
99*	Command – Lock. Entering “01” will lock all value inputs except this index. This prevents inadvertent changes to input values. Values may be unlocked by entering “00” in this index.

Table 3. Settings

Index	Min. Value	Max Value			Defaults	
					Single	Dual
0	1	99*	Open Speed	Open Speed is the speed used during normal operation in the opening state (02). This speed is set to change how long it takes the door to open. This parameter sets the target speed setting. Other parameters like open torque, open startup torque, open startup length, and open acceleration as well as door properties like friction, door length, and door weight affect door speed.	99	99
1	1	99*	Close Speed	Close Speed is the speed used during normal operation in the closing state (07). This speed is set to change how long it takes the door to close. This parameter sets the target speed setting. Other parameters like Close Torque, Close Startup Torque, Close Startup Length, and Close Acceleration as well as door properties like friction, door length, and door weight affect door speed.	35	25
2	1	99*	Open Check Speed	Open Check Speed is the speed used during normal operation in the open check state (04) prior to arriving at full open. This speed is set to determine how fast the door arrives at full open after open speed. This parameter sets the target speed setting. Other parameters like open check torque, open acceleration, and open braking as well as door properties like friction, door length, and door weight affect door speed.	10	10

NOTE: With the iQ Toolbox, the Max Values are 125.

Table 3 Settings continued next page.

Table 3. Settings (continued)

Index	Min Value	Max Value	Description		Defaults	
					Single	Dual
3	5	99	Open Check Length	Open Check Length is the percent of door length in which the door starts to slow down to open check speed. This parameter typically is adjusted based on door weight and open speed setting.	40	25
4	5	99	Close Check Length	Close Check Length is the percent of door length in which the door starts to slow down to Close Check Speed. This parameter typically is adjusted based on door weight and Close Speed setting.	15	15
5	1	99	Reduced Open Length	Reduced Open Length is the percent of door length from the full open position the door will stop at if in reduced open mode.	1	1
6	1	99	Hold Open Delay	Delay that the door stays open after all sensors have cleared (0 to 25 seconds).	15	15
7	0	3	Lock Logic	Select to choose desired Lock Logic. NOTE: Dura-Max 5400 logic is different and has its own two options: 00 = Fail Safe (unlocked when power is removed), 01 = Fail Secure (locked when power is removed), 02 = Dura-Max Fail Safe (unlocked when power is removed), 03 = Dura-Max Fail Secure (locked when power is removed).	1	1
8	1	99*	Open Torque	Open Torque is the torque used during normal operation following the end of open startup length. This torque must be set to comply with BHMA/ ANSI door force requirements. This parameter sets the maximum current available to the motor which is directly proportional to the door force. This torque setting is used in conjunction with open speed.	40	45

Table 3 Settings continued next page.

Table 3. Settings (continued)

Index	Min Value	Max Value	Description		Defaults	
					Single	Dual
9	1	99	Close Torque	Close Torque is the torque used during normal operation following the end of Close Startup Length. This torque must be set to comply with BHMA/ANSI door force equirements. This parameter sets the maximum current available to the motor which is directly proportional to the door force. This torque setting is used in conjunction with Close Speed.	30	25
10	1	99	Close Check Torque	Close Check Torque is the torque used during normal operation in close check state. This torque must be set to comply with BHMA/ANSI door force requirements. This parameter sets the maximum current available to the motor which is directly proportional to the door force. This torque setting is used in conjunction with close check speed.	35	25
11	0	2	Function Switch Type	00 = Double pole rotary 01 = Rocker 02 = ICU	1	1
12	0	1	2S Operation;	00 = 2S mode disabled / normal 01 = Push switch to open, push switch to close;	0	0
13	1	60	Close Obstruction Time	Close Obstruction Time is the amount of time in increments of 0.025s the door applies force when almost stopped or stopped when the controller indicates a state of “07”. Before increasing this parameter, check mechanical issues, and speed and torque parameter settings.	50	50
14	0	40	Open Acceleration	Open Acceleration affects the rate at which the door gets to its target speed. This parameter is used when the door is lagging open speed; open startup torque and open startup length should be investigated prior to increasing. This parameter affects all open motion speeds: open speed, open check speed, open learn speed, as well as open braking.	30	30

Table 3 Settings continued next page.

Table 3. Settings (continued)

Index	Min Value	Max Value	Description		Defaults	
					Single	Dual
15	1	10	Open Braking	The Open Braking parameter adjusts how quickly the door slows down prior to check speed. Increasing this parameter increases braking power.	8	8
16	0	40	Close Acceleration	Close Acceleration affects the rate at which the door gets to its target speed. This parameter is used when the door is lagging close speed, close startup torque and close startup length should be investigated prior to increasing. This parameter affects all close motion speeds: close speed, close check speed, close learn speed, as well as close braking.	20	20
17	1	10	Close Braking	The Close Braking parameter adjusts how quickly the door slows down prior to check speed. Increasing this parameter increases braking power.	4	2
18	0	6	Delayed Egress	Special Locking Application. See the Delay Egress Instruction Manual for use. 00 = Off 01 = 15 sec delay 1 second nuisance 02 = 30 sec delay 1 second nuisance 03 = 15 sec delay 2 second nuisance 04 = 30 sec delay 2 second nuisance 05 = 15 sec delay 3 second nuisance 06 = 30 sec delay 3 second nuisance	0	0
19	0	5	Safety Logic	00 - Monitored 2 Sensors: Threshold zone control (the threshold zone is enabled and disabled by the iQ). 1 - Monitored 4 Sensors: Threshold zone control (the threshold zone is enabled and disabled by the iQ). 2 - Monitored StanGuard™: (not recommended for Telescopic doors). 3 - Monitored 2 sensors. 4 - Non-monitored sensors. 5 - Monitored 4 sensors.	2	2

Table 3 Settings continued next page.

Table 3. Settings (continued)

Index	Min Value	Max Value	Description		Defaults	
					Single	Dual
20	0	1	Hold Beam Type	00 - Non-monitored Hold Beam 01 - Monitored Hold Beam Selects the hold beam type to be used for monitored or non-monitored applications. For Monitored Hold Beams: Photobeam Pro or Optex OSC12CT refer to wiring diagrams per application.	1	1
21	1	50	Lock Delay	This allows the lock to mechanically unlock before door motion. Lock Delay in 0.1 second increments.	1	1
22	0	99	Open Stop Distance	Distance from full open that the door will stop. This will be in 0.25” increments.	4	4
23	1	99	Close Check Speed	Close Check Speed is the speed used during normal operation in the close check state (09) prior to arriving at full closed. This speed is set to determine how fast the door arrives at full closed after close speed. This parameter sets the target speed setting. Other parameters like close check torque, close acceleration, and close braking as well as door properties like friction, door length, and door weight affect door speed.	8	8
24	0	1	Access Control Pro Enabled	Inside sensor lockout function. 00= OFF 01= ON When set to 01-On, the interior activation input is inhibited if the exterior activation input is active. Activation override can be accomplished through TB2 pin 9 and 10.	0	0
25	0	5	Close Press	Close Press affects how the doors press together at full closed. If the value selected is 0, the door does not press at the closed position. A value of 1 will have a softer release of motor energy and a value of 5 will be a quicker release.	2	2
27	1	99	Lock Release Torque	Lock Release Torque is the torque used on lock release state. A closed position switch is required, connected to TB-5. This parameter sets the maximum current available to the motor which is directly proportional to the door force.	20	20
28	1	60	Close Check Obstruction Time	Close Check Obstruction Time is the amount of time in increments of 0.025s the door applies force when almost stopped or stopped when the controller indicates a state of “09”. Before increasing this parameter, check mechanical issues, and speed and torque parameter settings.	50	50

Table 3. Settings (continued)

Index	Min Value	Max Value	Description		Defaults	
					Single	Dual
31	1	99*	Close Learn Speed	Close Learn Speed is the speed used on power up, during FIS and after an obstruction. The controller display may indicate either 07 or 09 as a door state and still use Close Learn Speed based on the conditions listed prior. This speed is typically set higher than check speed, to allow faster door motion when not in the check zones, but still slower door motion than normal operation. This parameter sets the target speed setting. Other parameters like close learn torque and close acceleration as well as door properties like friction, door length, and door weight affect door speed.	20	20
32	1	99	Close Learn Torque	Close Learn Torque is the torque used on power up, during FIS, after an obstruction. This torque must be set to comply with ANSI/ BHMA door force requirements. This parameter sets the maximum current available to the motor which is directly proportional to the door force. This torque setting is used in conjunction with Close Learn Speed.	30	25
33	0	99	Close Startup Length	Close Startup Length is the percent of door length in which Close Startup Torque parameter is used. These parameters are used to overcome friction encountered at the begining of close door motion. This parameter should be set as low as possible to ensure reliable operation.	0	0
35	1	99	Close Startup Torque	Close Startup Torque is the torque used when entering the closing state (07). It is used for a configurable door length (determined by the Close Startup Length parameter). After this door length, the torque setting will revert to the Close Torque. This torque should be set greater than Close Torque to ensure that the controller can start door motion, overcome static friction, and avoid obstructions. This torque must be set to comply with ANSI/BHMA door force requirements. This parameter sets the maximum current available to the motor which is directly proportional to the door force.	35	25

Table 3 Settings continued next page.

Table 3. Settings (continued)

Index	Min Value	Max Value	Description		Defaults	
					Single	Dual
36	1	60	Open Check Obstruction Time	Open Check Obstruction Time is the amount of time in increments of 0.025s the door applies force when almost stopped or stopped when the controller indicates a state of “04”. Before increasing this parameter, check mechanical issues, and speed and torque parameter settings.	50	50
37	1	99	Open Check Torque	Open Check Torque is the torque used during normal operation in open check state. This torque must be set to comply with ANSI/BHMA door force requirements. This parameter sets the maximum current available to the motor which is directly proportional to the door force. This torque setting is used in conjunction with open check speed.	40	40
39	1	99*	Open Learn Speed	Open Learn Speed is the speed used on power up, during FIS, after an obstruction, and return from breakout. The controller display may indicate either 02 or 04 as a door state and still use Open Learn Speed based on the conditions listed prior. This speed is typically set higher then check speed, to allow faster door motion when not in the check zones, but still slower door motion than normal operation. This parameter sets the target speed setting. Other parameters like open learn torque, and open acceleration as well as door properties like friction, door length, and door weight affect door speed.	25	25
40	1	99	Open Learn Torque	Open Learn Torque is the torque used on power up, during FIS, after an obstruction, and return from breakout. This torque must be set to comply with ANSI/BHMA door force requirements. This parameter sets the maximum current available to the motor which is directly proportional to the door force. This torque setting is used in conjunction with open learn speed.	48	25
41	1	60	Open Obstruction Time	Open Obstruction Time is the amount of time in increments of 0.025s the door applies force when almost stopped or stopped when the controller indicates a state of “02”. Before increasing this parameter, check mechanical issues, and speed and torque parameter settings.	50	50

Table 3 Settings continued next page.

Table 3. Settings (continued)

Index	Min Value	Max Value	Description		Defaults	
					Single	Dual
42	0	99	Open Startup Length	Open Startup Length is the percent of door length in which open startup torque parameter is used. These parameters are used to overcome friction encountered at the begining of open door motion. This parameter should be set as low as possible to ensure reliable operation.	15	15
44	1	99	Open Startup Torque	Open Startup Torque is the torque used when entering the opening state (02) and recycles. It is used for a configurable door length (determined by the Open Startup Length parameter). After this door length, the torque setting will revert to the Open Torque. This torque should be set greater than Open Torque to ensure that the controller can start door motion, overcome static friction, and avoid obstructions. This torque must be set to comply with ANSI/BHMA door force requirements. This parameter sets the maximum current available to the motor which is directly proportional to the door force.	85	85
45	0	99	Recycle Speed	Recycle Speed is the percent of open speed that is used when recycling in the open check or open braking zone.	30	20
46	0	50	Lock Release Time	The amount of time (seconds) that the door will press closed before going open when the lock needs to release at the closed position. The value zero disables the lock release. A closed position switch is required, connected to TB-5.	0	0
47	0	4	Fire Alarm Mode	Allows a normally closed contact to force the door open or closed slowly, upon contact opening. Used in conjunction with Configurable I/O parameter. Options 00 to 04 are minimum and maximum values: 00 = Disabled, 01 = Open, 02 = Close, 03 = Open with Retry, 04 = Close with Retry. After an obstruction, retry modes (03 and 04) will retry with short delay.	0	0

Table 3 Settings continued next page.

Table 3. Settings (continued)

Index	Min Value	Max Value	Description			Defaults	
						Single	Dual
48	0	3	IO configuration			0	0
			TB2-5	TB2-7	TB2-9		
	00 **(Default)**		1 way / 2 way	Reduced	Access Control Pro activation override (highest priority when selected).		
					4 Monitored Sensors (when selected).		
					Delay egress reset (default).		
	01		1 way / 2 way	Reduced	Fire Alarm.		
	02		1 way / 2 way	Fire alarm	Access Control Pro activation override (highest priority when selected).		
					4 Monitored Sensors (when selected).		
					Delay egress reset (default).		
	03		Fire alarm	Reduced	Access Control Pro activation override (highest priority when selected).		
					4 Monitored Sensors (when selected).		
					Delay egress reset (default).		

IO Configuration Parameter Description

Allows the Fire Alarm to be used instead of functions normally used with the selected input:

0 = Standard Functions (NO Fire Alarm Input).

1 = Fire Alarm Input is TB2-9 (Removes Functions: Access Control Pro activation override, Delayed Egress Reset, and 4 Monitored Sensor capability).

2 = Fire Alarm Input is TB2-7 (Removes Reduced Open function).

3 = Fire Alarm Input is TB2-5 (Removes One-way function).

Index	Min Value	Max Value	Descriptions		Defaults	
					Single	Dual
49	0	99	Open Power Assist Torque	This parameter sets the current to the motor which is used to make the door feel easier to move open when in “Manual” mode. This value should be set only as high as is needed to reduce the force required to move the door. Setting this value too high can cause the door to move by itself. Only available when index 11 is set to 02-ICU.	60	60
50	0	99	Close Power Assist Torque	This parameter sets the current to the motor which is used to make the door feel easier to move closed when in “Manual” mode. This value should be set only as high as is needed to reduce the force required to move the door. Setting this value too high can cause the door to move by itself. Only available when index 11 is set to 02-ICU.	50	50