

PROTOCOL

Lighting control system



USER MANUAL APPENDICES

UMA Rev. C - 08/08

PROTOCOL Appendix A - Decimal to Hexadecimal Conversion Chart

32 set S2,S1 to 2,0 33 set S2,S1 to 2,1	64 set S2,S1 to 4,0 65 set S2,S1 to 4,1
34 set S2,S1 to 2,1	66 set S2,S1 to 4,2
35 set S2,S1 to 2,2	67 set S2,S1 to 4,3
36 set S2,S1 to 2,4	68 set S2,S1 to 4,4
37 set S2,S1 to 2,5	69 set S2,S1 to 4,5
38 set S2,S1 to 2,6	70 set S2,S1 to 4,6
39 set S2,S1 to 2,7	71 set S2,S1 to 4,7
40 set S2,S1 to 2,8	72 set S2,S1 to 4,8
41 set S2,S1 to 2,9	73 set S2,S1 to 4,9
42 set S2,S1 to 2,A	74 set S2,S1 to 4,A
43 set S2,S1 to 2,B	75 set S2,S1 to 4,B
44 set S2,S1 to 2,C	76 set S2,S1 to 4,C
45 set S2,S1 to 2,D	77 set S2,S1 to 4,D
46 set S2 S1 to 2,E	78 set S2,S1 to 4,E
47 set S2,S1 to 2,F	79 set S2,S1 to 4,F
48 set S2,S1 to 3,0	80 set S2,S1 to 5,0
49 set S2,S1 to 3,1	81 set S2,S1 to 5,1
50 set S2,S1 to 3,2	82 set S2,S1 to 5,2
51 set S2,S1 to 3,3	83 set S2,S1 to 5,3
52 set S2,S1 to 3,4	84 set S2,S1 to 5,4
53 set S2,S1 to 3,5	85 set S2,S1 to 5,5
54 set S2,S1 to 3,6	86 set S2,S1 to 5,6
55 set S2,S1 to 3,7	87 set S2,S1 to 5,7
56 set S2,S1 to 3,8	88 set S2,S1 to 5,8
57 set S2,S1 to 3,9	89 set S2,S1 to 5,9
58 set S2,S1 to 3,A	90 set S2,S1 to 5,A
59 set S2,S1 to 3,B	91 set S2,S1 to 5,B
60 set S2,S1 to 3,C	92 set S2,S1 to 5,C
61 set S2,S1 to 3,D	93 set S2,S1 to 5,D 94 set S2,S1 to 5,E
62 set S2,S1 to 3,E 63 set S2,S1 to 3,F	95 set S2,S1 to 5,F
05 300 52,51 10 5,1	JJ 300 JZ,JI 00 J,I

96 set S2,SI to 6,0 97 set S2,SI to 6,1 98 set S2,SI to 6,2 99 set S2,SI to 6,3

NOTES:

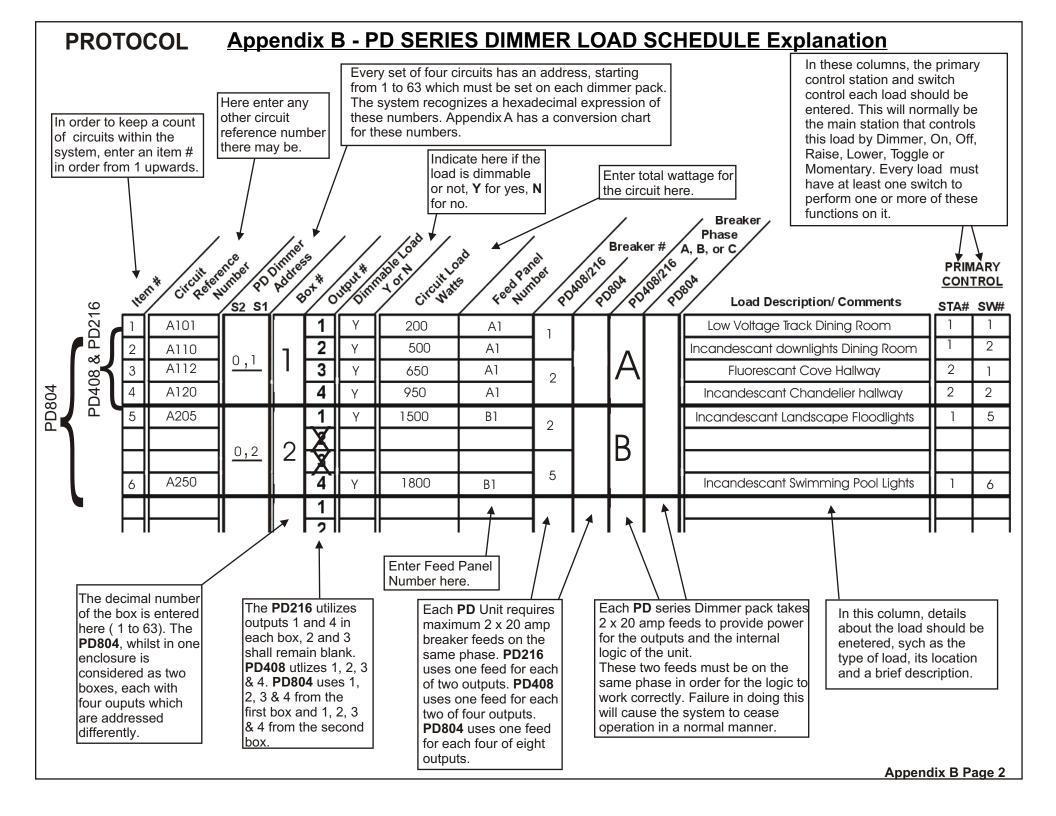
00 Decimal (S2,SI = 0,0) is not Used on any device.

Max Pd4xx, DC04 Address: 63 Decimal (S2,S1 = 3,F)

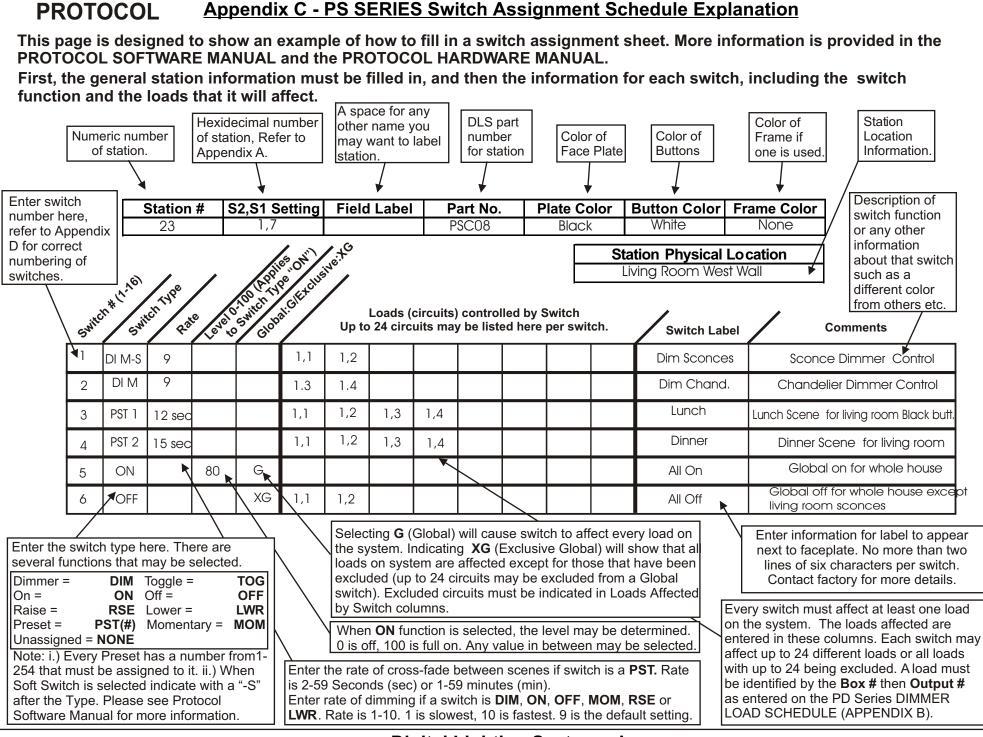
Max. Psxx Wall Station, DCI16 Address: 99 Decimal (S2,S1 = 6,3)

Max. PTxx Patcher Address: 07 Decimal (S2,S1 = 0,7)

PROTOCOL	Appendix B - PD SERIES DIMMER	OAD SCHEDULE Jo	b Name:
		Breaker	,
	Direct Address Output the Total Circumstra Feed Panel	Breaker # A, B, or C	Date: Page Of
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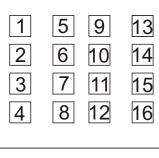


PROTOCOL Appendix C - PS SERIES Switch Assignment Schedule Job Name:																					
Station	# S2	, S1 s	etting	Fie	ld Lak	pel	Part no). P	late C	olor	Bu	tton C	olor	Fran	ne Col	or					
																	F	Date:	г	Page	Of
Station Physical Location									7	Ļ											
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Switch # 1	Switch	Type Inction	ste ever	Loads (circuits) controlled by Switch Up to 24 circuits may be listed here per switch.								_/	/		Com	ments					
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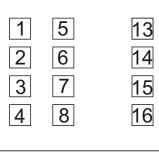


Appendix D - Protocol Stations Button Numbers Chart

Double-Gang
Button Arrangement choices



FPS16



FPS12

Single-Gang Button Arrangement choices

2 6

FPS-02

2637

FPS-04

5
 6

3 7

FPS-06

1 5

2 6

3 7

4 8

FPS-08

Appendix E - Protocol Stations Wire Gauge Chart

Recommended maximum number of PS Series stations (or other nodes such as DCI-16's, DCO-4's, PT Series Patch Panels and RAU-96's) per home run when using a 10 VOLT AC transformer. Computations are based on an even distribution of nodes along the 10 VAC power line.

Maximum Number Of Stations (Nodes) Versus Cable Length and Gauge

	Cable Length											
	50'	100'	150'	200'	250'	300'	400'	500'	600'	800'		
Cable Gauge												
22 Gauge	23	11	8	6	5	4	3	2	2	1		
20 Gauge	36	18	12	9	7	6	5	4	3	2		
18 Gauge	58	29	19	14	12	10	7	6	5	4		
16 Gauge	92	46	31	23	18	15	11	9	8	6		
14 Gauge	145	73	48	36	29	24	18	15	12	9		
12 Gauge	231	116	77	58	46	39	29	23	19	14		

NOTE:

MAXIMUM LENGTH OF DATA TWISTED PAIR MUST NOT EXCEED 2000' PER HOME RUN.
Two 18 Gauge or thicker twisted pairs are recommended for the PROTOCOL System, one pair for Data, one pair for LV logic Power. A shielded cable may be used to provide a ground for all stations.

General Cable #C3362 <u>or Equivalent</u> 4-Wire (2 Twisted Pairs) Shielded Network Bus Cable may be used.

Appendix F: PSFxx wall keypad station Preset Lock and Unlock Procedure

The preset (scene) Lock feature ensures that the end-user cannot change the scenes by accident. The default setting of the station is to have the preset buttons **locked**. When preset buttons are **locked** scenes cannot be changed.

To "<u>unlock</u>" the presets in order to be able to set a lighting scene, the station will need to be reset. The station is reset by either unplugging it from its power supply or **pressing the reset button located under the faceplate between buttons 1 and 5.**

While the station is reseting (all LED's on station will be flashing for 10 seconds), **buttons 4 and 8 must be pressed simultaneously** (LED's will cease to flash). The presets are now **unlocked**. Scenes can now be set by the usual method (adjusting light levels and then pressing and holding a preset button for 4 seconds until all LED's flash).

Once all scenes have been stored, the station may now be **locked**. Locking the station is done by reseting the station by using the reset button or unplugging the station from its power supply. The station is now **locked**.

Individual light levels may still be changed whether station is **locked** or **unlocked**. Only presets buttons are affected by this procedure.

