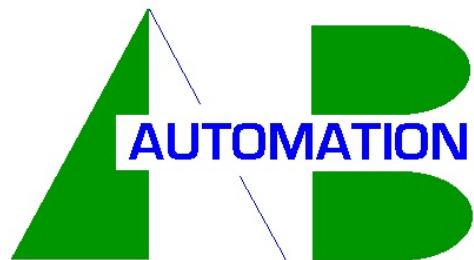


WOW!TM

Message

Specification

Able-Baker Automation, Inc.
Sample



ABA101-SP-01 - Rev. B
December, 2009

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Revision Notes

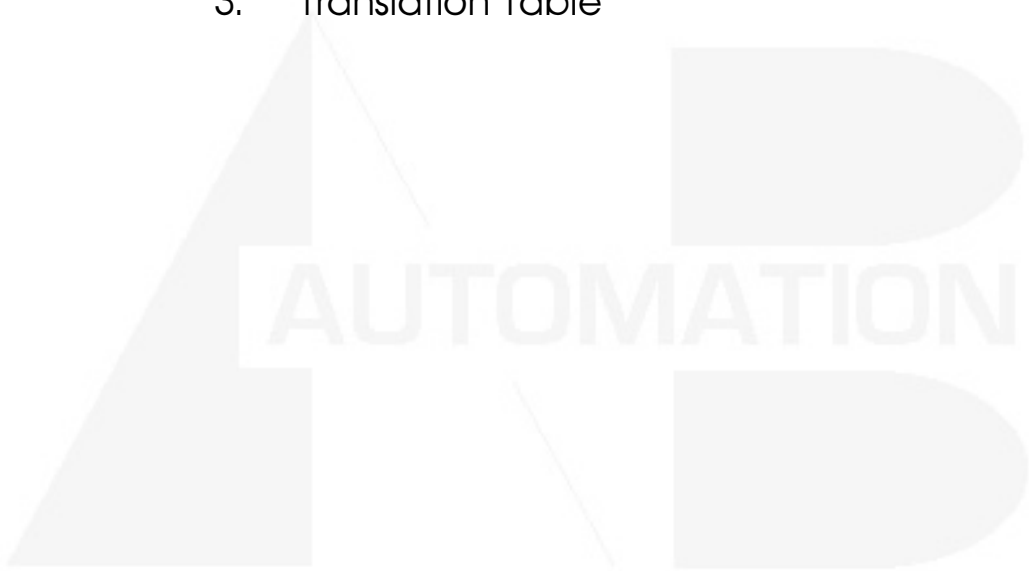
Able-Baker Automation revisions:

Rev.	Date	Description	Done	Chk'd	App'd
A	July 26, 2000	Issued as Sample	WCB		
B	Dec. 10, 2009	Updated Address	WCB		



I. **PROTOCOL**

1. Purpose
2. Specifications
3. Translation Table



1. Purpose

- 1.1 This system utilizes the Able-Baker **WOW!**[™] Protocol to send communications between the Master Computer (MC) and the Slave Controller (SC).

2. Specifications

- 2.1 The system will use RS-232C communications at 9600 Baud, 8 data Bits, No Parity. This system will not use flow control. (Hardware Flow Control is not supported by this controller.)
- 2.2 For details on the Able-Baker **WOW!**[™] Protocol please see the Protocol Manual that is attached.

3. Translation Table

- 3.1 The message characters that are used in this application are defined in the attached table.

Able-Baker **WOW!**[™] Protocol Translation Table
 Able-Baker Automation - Sample Program

Char-acter	ASCII Code (Base 10)	Source Master (MC)/ Slave (SC)	Message
#	35		
\$	36		
%	37		
&	38	MC	Query SC Status? Allow Unsolicited Response at any time until next message is sent
(40		
)	41		
*	42		
+	43		
-	45		
/	47		
0	48	SC	Unsolicited Response - Watchdog Timer No change in status in last 60 seconds. (Last command received was "&")
1	49		
2	50		
3	51		
4	52		
5	53		
6	54		
7	55		
8	56		
9	57		
:	58		
;	59		
<	60		

Able-Baker **WOW!**[™] Protocol Translation Table
 Able-Baker Automation - Sample Program

Char-acter	ASCII Code (Base 10)	Source Master (MC)/ Slave (SC)	Message
=	61		
>	62		
?	63		
@	64		
A	65	MC	Command SC to Open Door
B	66	MC	Command SC to Close Door
C	67	MC	Command SC to Lock Door
D	68	MC	Command SC to Unlock Door
E	69		
F	70	MC	Query SC for hardware firmware version (Requires Expanded Response)
G	71		
H	72		
I	73		
J	74	MC	Query SC Air OK?
K	75	MC	Query SC Vacuum Pressure OK?
L	76	MC	Query SC Door Open?
M	77	MC	Query SC Door Locked?
N	78	MC	Query SC Lights On?
O	79	MC	Query SC Power On?
P	80		
Q	81		
R	82		
S	83	MC	Query SC for Software Version Number Requires Expanded Response
T	84		

Able-Baker **WOW!**[™] Protocol Translation Table
 Able-Baker Automation - Sample Program

Char-acter	ASCII Code (Base 10)	Source Master (MC)/ Slave (SC)	Message
U	85		
V	86		
W	87		
X	88		
Y	89		
Z	90		
[91		
\	92		
]	93		
^	94		
_	95		
a	97	SC	Response to "A" Acknowledge Door Open
b	98	SC	Response to "B" Acknowledge Door Closed
c	99	SC	Response to "C" Door Locked
d	100	SC	Response to "D" Door Unlocked
e	101		
f	102		
g	103		
h	104		
i	105		
j	106	SC	Response to "J" Air is OK Unsolicited Response - Status Change Air is now OK (Last command received was "&")

Able-Baker **WOW!**[™] Protocol Translation Table
 Able-Baker Automation - Sample Program

Char-acter	ASCII Code (Base 10)	Source Master (MC)/ Slave (SC)	Message
k	107	SC	Response to "K" Vacuum is OK Unsolicited Response - Status Change Vacuum is now OK (Last command received was "&")
l	108	SC	Response to "L" Door Open Unsolicited Response - Status Change Door now opened (Last command received was "&")
m	109	SC	Response to "M" Door Locked Unsolicited Response - Status Change Door is now locked (Last command received was "&")
n	110	SC	Response to "N" Lights On Unsolicited Response - Status Change Lights are now On (Last command received was "&")
o	111	SC	Response to "O" Power On Unsolicited Response - Status Change Power is now OK (Last command received was "&")
p	112		
q	113		
r	114	SC	Response to "J" Air is not OK Unsolicited Response - Status Change Air is now not OK (Last command received was "&")
s	115	SC	Response to "K" Vacuum is not OK Unsolicited Response - Status Change Vacuum is now not OK (Last command received was "&")
t	116	SC	Response to "L" Door is not open Unsolicited Response - Status Change Door is now not open (Last command received was "&")

Able-Baker **WOW!**[™] Protocol Translation Table
 Able-Baker Automation - Sample Program

Char-acter	ASCII Code (Base 10)	Source Master (MC)/ Slave (SC)	Message
u	117	SC	Response to "M" Door not Locked Unsolicited Response - Status Change Door is now not locked (Last command received was "&")
v	118	SC	Response to "N" Lights not on Unsolicited Response - Status Change Lights are now not On (Last command received was "&")
w	119	SC	Response to "O" Power is not on Unsolicited Response - Status Change Power is now not OK (Last command received was "&")
x	120		
y	121		
z	122	SC	Response to "A","B","C", or "D" Command Failed
{	123		
	124		
}	125		
~	126		
Expanded Responses			
.	46	SC	Response to Query "F" Hardware Version Number 000-999
		SC	Response to Query "S" Software Version Number 000-999