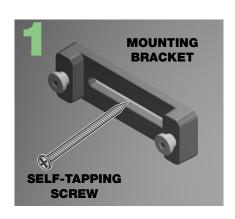




Section 2 - Mounting to Structure

- 1. Determine mounting location of A\V Gateway and mark on wall or ceiling.
- 2. Locate Mounting Bracket and provided mounting hardware.
- 3. Line up the mounting holes on the back of the AV Gateway with the mounting pegs on the mounting bracket.







Section 3 - 3rd Party Component Integration Methods

 $\label{thm:control} \mbox{The AV Gateway allows various 3rd party control components to integrate with an IntelliFlex I/O network.}$



The integration methods supported are:

- 1. RS-232 and RS-485 serial communication
- 2. Contact Closure
- 3. Low Voltage Input
- 4 IR

By default, all inputs will control every shade in the network.

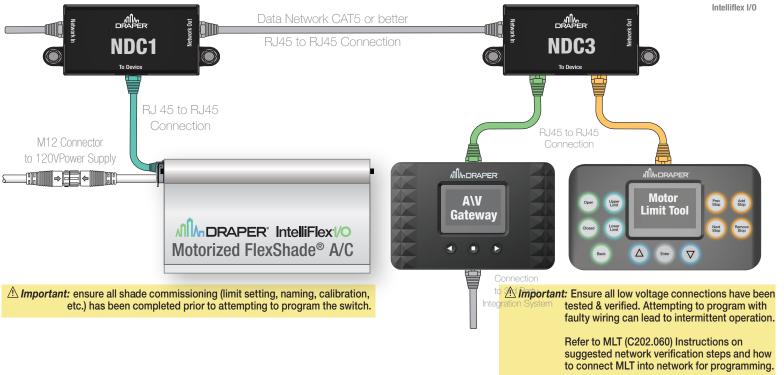
To limit the operation to select groups of shades use the following procedures



Section 4 - Wiring Diagram



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Section 5 - Configuring AVG Serial Group Parameters

Section 5.1 – Programming from MLT

Section 5.1.1 - Identify/Select AVG (if multiple)

- 1. From MLT main menu, SELECT DEVICE SETTINGS, then SELECT SERIAL PORT.
- 2. Choose AVG from list of devices on network.
- 3. To identify AVG, highlight AVG and screen on AVG will blink rapidly to identify it.

Section 5.1.2 - Renaming AVG

- 1. SELECT RENAME.
- 2. AVG can be assigned a numerical value for easier identification.

Section 5.1.3 - Configuring AVG parameters

From this menu, you can configure the following parameters:

Group: Assigning AVG Group to previously configured shade group or assign as a **MASTER**.

Priority

Low:AVG Group will only operate if there are no other overrides on the group.

Normal: AVG Group will operate shade group if no HIGH priority overrides on the group.

High: AVG Group will lock-out all other controls until cleared.

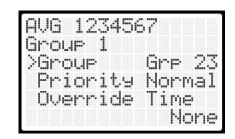
Override Time: Time in minutes that the AVG Group override will be active.

The range can be NONE (indefinite override) or anywhere from 1-999 minutes

Section 5.1.4 - Factory Reset

1. Select Factory Reset from the menu to return AVG to default factory settings (master control)





INSTRUCTION PROGRAMMING

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ACCESS to ALL

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Section 5.2 – Programming from AVG

1. SELECT SERIAL from the Main Menu.

Section 4.2.1 - Configuring Serial Groups

- 1. From the serial menu, **SELECT GROUPS** to show list of 64 serial groups.
- 2. SELECT GROUP TO BE CONFIGURED and choose one of the following options:

Master: This will control every shade that is connected to the IPG network.

Custom: This group can be configured directly on the IPG by using the add/skip method listed below.

Global (1-64): This group can be configured via the MLT.

Please reference MLT (C202.060) instructions for configuring a custom group.

3. After initializing, one shade will begin to identify. SELECT ADD to assign that shade to the group, or, SKIP to move on to next shade. Once all shades have been added to the group SELECT DONE.

>Serial Contact Closure Low Volta9e In IR Input Settin9s Serial

AV Gateway

Correct

Group:3 Command:P

Serial Monitor

Preset Stop

Move to Previous

Intelliflex I/O

Exit Groups Serial Monitor earn Commands. Settin9s

<u>Incorrect</u>

G3P!

Serial Monitor

Data Received:

Section 5.2.2 - Serial Monitor

1. The SERIAL MONITOR option will display string commands that are received by the AVG.

This can be helpful to troubleshoot any communication issues.

Section 5.2.3 - Learn Commands

The AV Gateway can learn commands to integrate more easily with other systems.

- 1. Select LEARN COMMANDS from the SERIAL menu.
- 2. Up to 100 commands can be learned. Select the command number from the list.
- 3. Select **COMMAND** to begin learning the new command. Once the display shows "Learning...", send the command to learn through the RS232 or RS485 interface. Once learned it will show in the COMMAND field. (Note: Max Command size is 32 Characters)
- Select the ACTION to take when the command is received. The following are selectable actions to choose from: (Open, Close, Stop, Clear, Next, Prev, Tilt Open, Tilt Closed, Tilt Prev, Tilt Next, Pre 1,...,Pre 32, Tilt 1,...,Tilt 32)
- 5. Select the GROUP number that the command should control.

Command

Exit Command No Command Action Open Group 1

Section 5.3 - RS-232 and RS-485 Serial Control

To change the default serial port settings:

- 1. Select SETTINGS from the SERIAL menu.
- 2. Select the protocol being used: RS232 or RS485.
- 3. Use the menu to set the values for BAUD RATE, DATA BITS, STOP BIT and PARITY.

RS232 Settings ΣExit 9600 Baud Rate Data Bits Stop Bits Parity MONE

Section 5.4 - Serial Protocol

Serial interface uses a ASCII protocol for communication as described below:

START	ADDRESS	COMMAND	END
1 Char	2 Chars	1 - 4 Chars	1 Char
G	XX	YYYY	Ţ

XX = The Group Number to command from 01 to 64. This must be a two digit number; 0 must precede any single digit number. Y-YYYY = Shade command from the following table

EXAMPLES:

COMMAND	ACTION
G010!	Move motor group 1 fully open.
G0486!	Move motor group 4 to 86% closed.
G15S!	Stop motor group 15.

COMMAND	ACTION
0	FULLY OPEN
С	FULLY CLOSE
S	STOP
Р	PREVIOUS STOP
N	NEXT STOP
Т	TOGGLE
CO	CLEAR OVERRIDE
0-100	MOVE to %
PS0 - PS64	MOVE to PRESET STOP
TO	TILT OPEN
TC	TILT CLOSED
TP	TILT to PREVIOUS STOP
TN	TILT to NEXT STOP
T0-T100	TILT to %
TS0 -TS64	TILT to PRESET STOP

DEFAU	LT SEF	RIAL SETTINGS
BAUD	RATE	9600
DATA I	BITS	8
STOP I	BITS	1
POLAF	RITY	NONE
PIN	FUNC	TION
1	RS48	5 B (+)
2	RS48	5 A (-)
3	RS23	2 TX → RX
4	RS23	2 GND
5	RS23	2 GND
6	RS23	2 RX → TX
7	RS48	5 GND

RS485 GND



Section 6 - Contact Closure Control

Section 6.1 - Configuring Contact Closure Parameters from MLT

From the main menu:

- 1. Select Device Settings.
- 2. Select Contact Closure.
- 3. Select the desired AVG (if multiple).
- 4. Select Contact Closure Group to configure.
- 5. From this menu, you can configure the following parameters:

Priority:

Low: Contact Closure Group will only operate if there are no other overrides on the group.

Normal: Contact Closure Group will operate shade group if no HIGH priority overrides on the group.

Group: Assigning Contact Closure Group to previously configured shade group or assign as a MASTER.

High: Contact Closure Group will lock-out all other controls until cleared.

Profile: Please refer to section 6.3 for profile descriptions. Profile selection will apply to all 3 Contact Closure groups.

Override Time: Time in minutes that the Contact Closure Group override will be active. The range can be NONE (indefinite override) or anywhere from 1-999 minutes

Section 6.2 - Configuring Contact Closure Parameters from AVG

6.2.1 Setting Contact Closure Groups

- 1. From the Contact Closure menu, select Groups2. There are 3 sets of contact closures on the AV Gateway.
- 2. Select the group to configure from the list.
- 3. Choose one of the following options:

Master: This will control every shade that is connected to the AVG network.

Custom: This group can be configured directly on the AVG by using the add/skip method listed below.

Global (1-64): This group can be configured via the MLT.

Please reference MLT (C202.060) instructions for configuring a custom group.

4. After initializing, one shade will begin to identify. SELECT ADD to assign that shade to the group, or, SKIP to move on to next shade. Once all shades have been added to the group SELECT DONE.

6.2.2 Setting Contact Closure Profile

- 1. From the Contact Closure menu, select Profile.
- 2. Please refer to section 6.3 for profile descriptions. Profile selection will apply to all 3 Contact Closure Groups.

>Group Master Priority Normal Profile Standard Override Time

Contact Profile





Section 6.3 - Contact Profiles

Pulse = Close contact for 500ms or less. Hold = Close contact for 1500ms or more.



Profile 1: Standard Profile

ALL GROUPS	
Pulse U	Previous Stop
Hold U	Full Up
Pulse D	Next Stop
Hold D	Full Down
Hold U & D	Stop

Profile 2: Venetian Blinds

Group 1 - I	Extend Only
Pulse U	Previous Stop
Hold U	Full Retract
Pulse D	Next Stop
Hold D	Full Extend
Hold U & D	Stop

Group 2 - Tilt Only	
Pulse U	Previous Stop
Hold U	Next Stop
Pulse D	Tilt Fully Up
Hold D	Tilt Fully Down

Group 3 - Standard See Profile 1

Profile 3: Toggle

ш			
			 _

Pulse U or D Stop if moving, otherwise move fully in the opposite direction of the last move

(Pulse from full up/full down will trigger full run in opposite direction)

Profile 4: No Presets

ALL GROUPS	
Pulse U	Full Up
Hold U	Momentary Up (Stop on Release)
Pulse D	Next Stop
Hold D	Momentary Down (Stop on Release)
Hold U & D	Stop

Profile 5: Presets

Group 1	
See Profile 4	
above	

Group 2	
Pulse U	Preset 1
Pulse D	Preset 2

Group 3	
Pulse U	Preset 3
Pulse D	Preset 4

Profile 6: Key Switch

ALL GROUPS	
Maintained Movements	
Close U	Full Up
Close D	Full Down
Open	Clear Override

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Section 7 - Low Voltage Control

- 1. Select LOW VOLTAGE IN from MAIN MENU.
- 2. Refer to section 4.2.1 for how to set group to be controlled from the low voltage input.
 - **Applying a 5-24VDC signal to the low voltage input terminal will move shade group closed. Once the signal is removed, shades will move open.**



Section 8 - IR Control (can be used with Part #121227 - IR Transmitter & Receiver)

- 1. Select IR INPUT from MAIN MENU.
- 2. Refer to section 4.2.1 for how to set group to be controlled from the low voltage input.
 - **The group can now be controlled using the UP, DOWN and STOP BUTTONS on IR remote.**

Section 9 - Settings

- 1. Select SETTINGS from the MAIN MENU.
- 2. Select FACTORY RESET and confirm to restore the original factory settings to the A\V Gateway.



