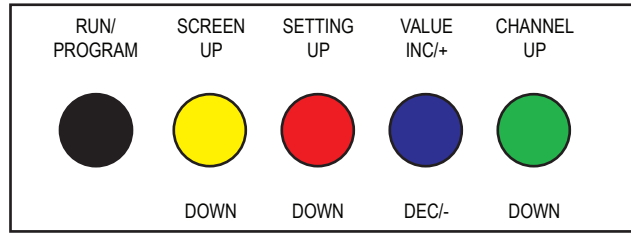


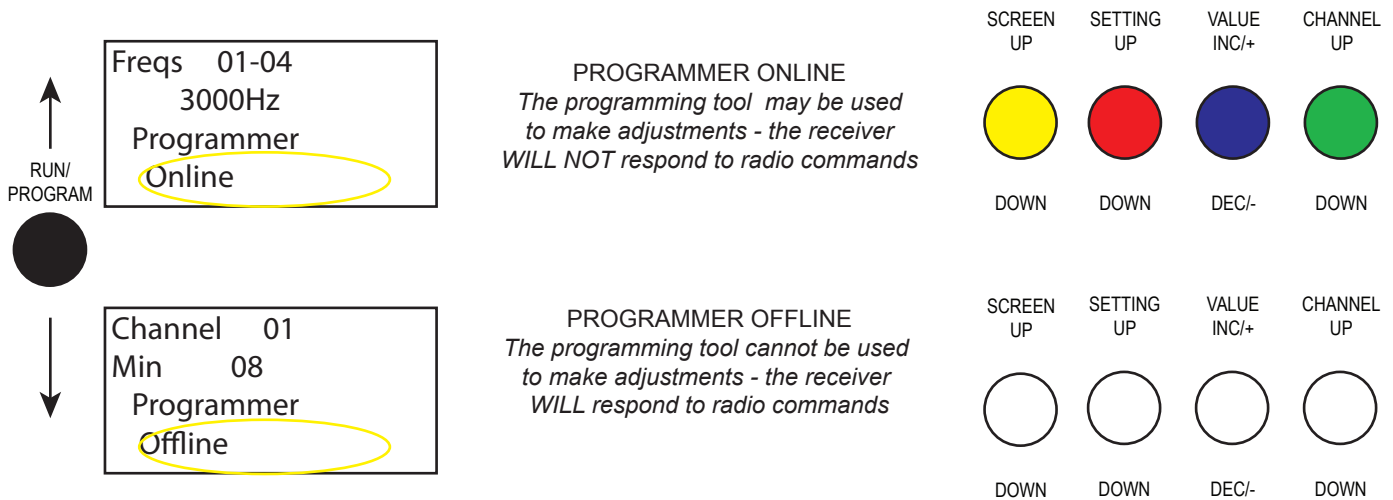
PT-U (Programming Tool - Universal)

Programmer Switch Legend



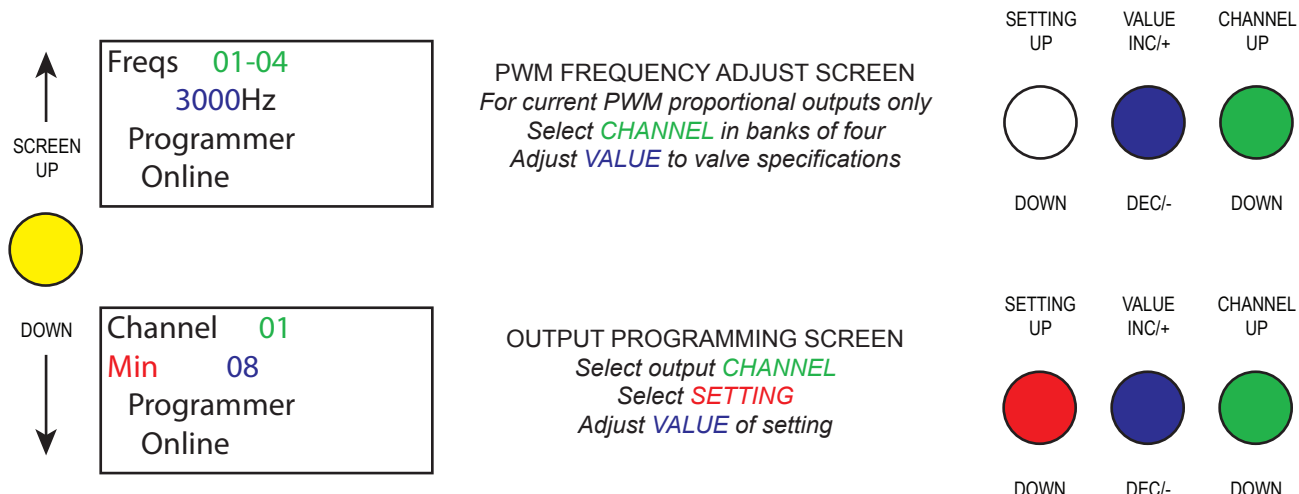
To change settings in your Miratron Programmable Receiver (R4-P & R2-P), connect the Programming Tool to the receiver via standard 4-pin tether cable. While connected, the Programming Tool can be taken offline via the **RUN/PROGRAM** button without disconnecting the cable.

This allows the user to quickly observe the effect of changed settings.



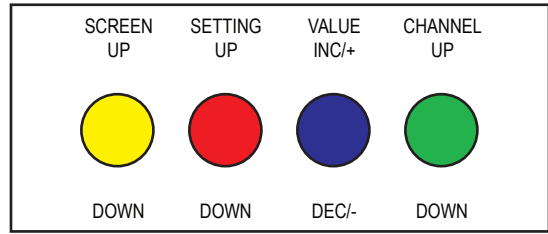
Programming a R4-P:

With the programmer online, use the toggle switches to navigate and make changes to the various settings.



Programming a R2-P:

Programmer Switch Legend



SETUP AND DIAGNOSTIC MENU GUIDE



```
*****
* Project Name *
*  CMD16 - XXXX *
*****
```

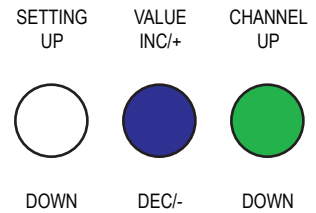
WELCOME SCREEN
Displays project name and model number *For reference only*

```
Uptime - Build
00;00:00.00
Jan 01 2009
12:30:00
```

HISTORY SCREEN
Displays run time and programming date *For reference only*

```
Frequency Select
Channels 0-3
Output Frequency
3000 Hz
```

PWM FREQUENCY ADJUST SCREEN
For current PWM proportional outputs only
Select CHANNEL in banks of four
Adjust VALUE to valve specifications



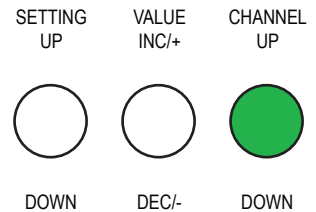
```
Status = In Range
Address 00000001
Switch 00000000
Analog - - - - -
```

TRANSMITTER DIAGNOSTICS SCREEN
Displays transmitter status and address
Displays function codes for switches
Displays status of proportional controls

OPERATE TRANSMITTER
Function codes for switches and
Status of proportional controls
Indicated on display

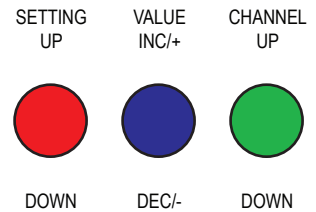
```
INPUT 16 Pin 05 ^
- - - - - |
0.5 2.5 4.5 N
nnnnnn v
```

INPUT DIAGNOSTICS SCREEN
Select input CHANNEL (if equipped)
Bar graph display shows input voltage



```
Out 01 Pin 11 ^
Left Track REV C
OUTPUT = 0.0 H
nnnnnnnnnnnn v
```

OUTPUT PROGRAMMING SCREEN
Select output CHANNEL
Displays function name and status
Select SETTING
Adjust VALUE of setting
Bar graph display shows output level



```
0 +OUTPUTS+ 15
- - - - -
16 + + + 31
- - - - -
```

OUTPUT STATUS SCREEN
Bar graph display shows status of
all outputs *For reference only*