CP electronics
intelligent energy control

DD-LCDHS

Direct Dim, PRM and MWS7 Handset

Contents

1. Description and Operation

The DD-LCD-HS is the programming tool for all products in the –DD (Direct Dim), -PRM (PRM) and MWS7 ranges.
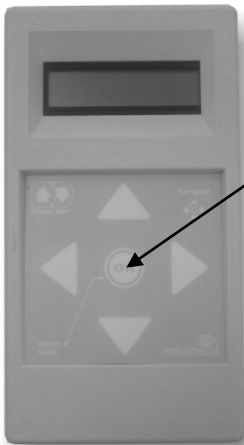
On button
To turn the unit on press the 'on' button. This button is also used for selecting parameters and then sending to the device being programmed.

Up, down. Left and right buttons
Use to navigate through the menus. The up and down buttons are also used for selecting values or toggling between on / off, yes / no etc.

To turn the unit off, either select the final main menu item or the unit will turn off after 30 seconds.

2. LCD Navigation

```
Select Menu     <>
Detector Param
```
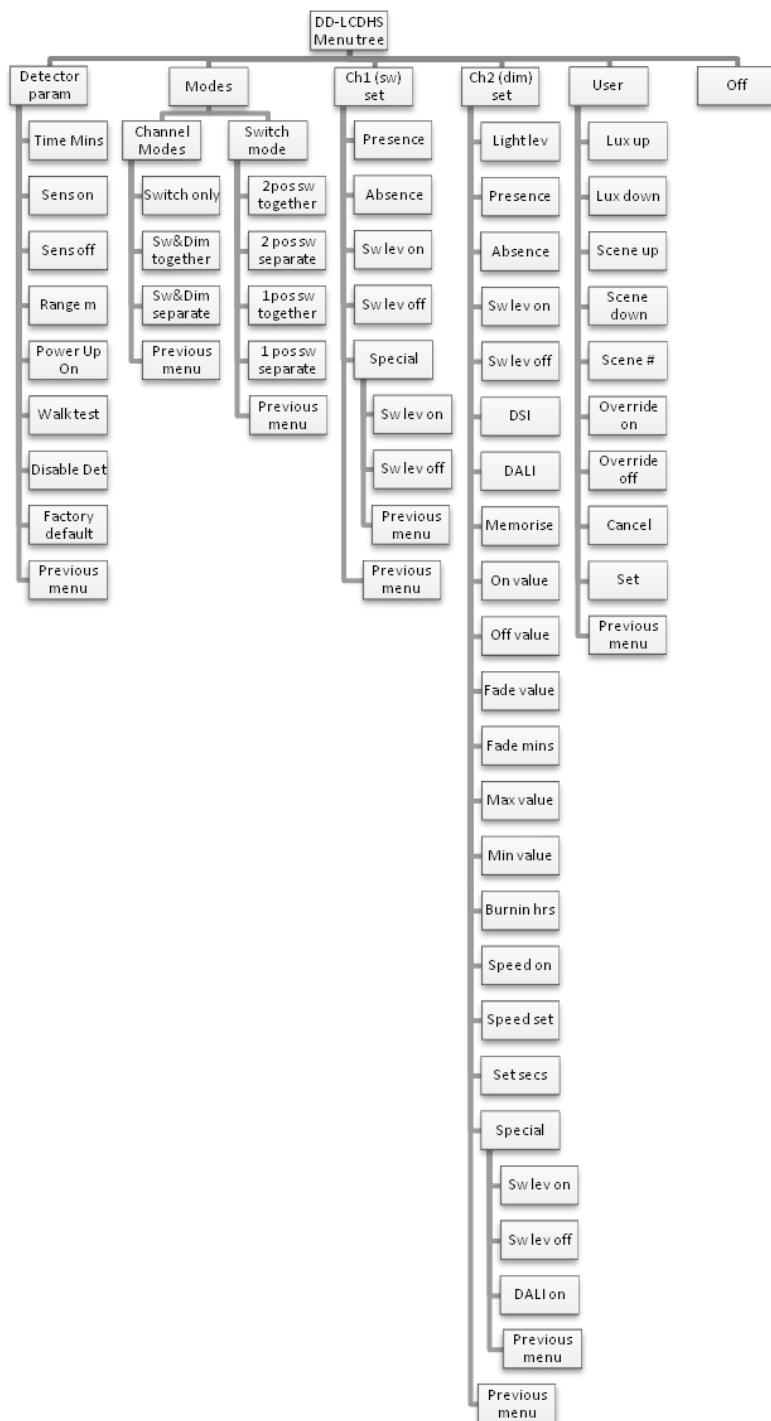
Menu selection
Use the < > buttons to scroll through the menus. Press 'on' to select.

```
Ch1(sw) Set     <>
Sw lev  off     ^v
```

Parameter selection
Use the < > buttons to scroll through the menus. Press 'on' to select menu. Use the up and down buttons to select values or toggle between on / off, yes / no. Press 'on' to send parameter to device.

3. Menu Tree

```
                                    DD-LCDHS
                                    Menu tree
         ┌──────────┬──────────────┬──────────────┬──────────────┬──────────────┐
     Detector        Modes         Ch1 (sw)       Ch2 (dim)        User          Off
      param                          set            set

     Time Mins    Channel       Switch       Presence      Light lev      Lux up
                  Modes         mode

     Sens on      Switch only   2pos sw      Absence       Presence       Lux down
                                together

     Sens off     Sw&Dim        2 pos sw     Sw lev on     Absence        Scene up
                  together      separate

     Range m      Sw&Dim        1pos sw      Sw lev off    Sw lev on      Scene
                  separate      together                                  down

     Power Up     Previous      1 pos sw     Special       Sw lev off     Scene #
     On           menu          separate

     Walk test                  Previous        Sw lev on     DSI         Override
                                menu                                      on

     Disable Det                            Sw lev off    DALI           Override
                                                                         off

     Factory                    Previous      Memorise      Cancel
     default                    menu

     Previous                                 On value      Set
     menu

                                              Off value    Previous
                                                           menu

                                              Fade value

                                              Fade mins

                                              Max value

                                              Min value

                                              Burn in hrs

                                              Speed on

                                              Speed set

                                              Set secs

                                              Special

                                                  Sw lev on

                                                  Sw lev off

                                                  DALI on

                                                  Previous
                                                  menu

                                              Previous
                                              menu
```

The final column for each menu section shows which products can programmed with specific parameters.

4. Detector Parameter Menu

IR cmd	Description	Default	Products
Time Mins	10 seconds to 99 minutes time delay (select 0 for 10 second delay – use for commissioning only).		All
Sens on	Sensitivity level when the detector is already operational adjustable between 1 (min.) and 9 (max.)	Product dependant	All
Sens off	Sensitivity level for switching the detector on – adjustable between 1 (min.) and 9 (max.).	Product dependant	All
Range m	Set the detectors' range in metres (0-999m)	8	MWS7 only
Power Up On	Select No for a 30 second delay on start up. If Yes is selected, there will be no delay on start up and the detector will always power up detecting.	Y	All
Walk test	If set, walk test mode will flash the internal LED when occupancy is detected	N	All
Disable Det	Disables detection, leaving the relay output permanently off with the dimming output operational. This mode is used when the unit is for maintained illuminance only.	N	All
Factory default	Restores factory default settings
Use with caution		All

5. Modes Menu

IR cmd	Description	Products
Channel modes	Selects the channel modes menu	All
Switch modes	Selects the switch modes menu	All

Channel Modes Menu

IR cmd	Description	Default	Products
Switch only	Usually used for absence detection - in this mode the dimming channel is not used.		-DD & MWS7 only
Sw&Dim together	The detector will switch and dim the lighting together.	Default	-DD & MWS7 only
Sw&Dim separate	Provides 2 channel operation – Channel 1 is switched via the relay output, and Channel 2 is dimmed / switched via the dimming output.		-DD & MWS7 only

Switch Modes Menu

IR cmd	Description	Default	Products
2pos sw together	A single centre biased retractive switch will be used to control both channels together.	Default	-DD & MWS7 only
2pos sw separate	A single centre biased retractive switch will be used to control only the dimming channel.		-DD & MWS7 only
1pos sw together	A single position retractive switch controls both channels together.		-DD & MWS7 only
1pos sw separate	Two single position retractive switches, controlling the channels separately.		-DD & MWS7 only

Use this menu for programming Channel 1. This is the switched channel.

IR cmd	Description	Default	Products
Presence	Auto switch on with detection, auto off after movement ceases and time delay ends.	Product dependant	All
Absence	Manual switch on, auto off after movement ceases and time delay ends.	Product dependant	All
Sw lev on	Switch level on Lux level setting to prevent the luminaires being switched on if the ambient light level is sufficient (adjustable between 1 and 9). The luminaires will always be switched on at level 9. For a higher resolution of 'switch level on' a scale of 101-199 is available in the 'Special menu'.	9	All
Sw lev off	Switch level off Lux level setting to switch the luminaires off during occupancy if the ambient light level goes above the setting (adjustable between 1 and 9). Level 9 will always keep the lights on. This setting can be used for "window row switching".	9	All
Special	Selects the special menu below		All

Special Menu

IR cmd	Description	Default	Products
Sw lev on	Switch level on Lux level setting to prevent the luminaires being switched on if the ambient light level is sufficient (adjustable between 101 and 199). Use to provide finer adjustment than parameters above.	None	All
Sw lev off	Switch level off Lux level setting to switch the luminaires off during occupancy if the ambient light level goes above the setting (adjustable between 101 and 199). Use to provide finer adjustment than parameters above.	None	All

7. Ch2 (dim) set Menu

Use this menu for programming Channel 2. This is the dimmed channel.

IR cmd	Description	Default	Products
Light lev	Light level. Maintained illuminance level (adjustable between 1 and 999). At 999 the output will be always be at maximum.		-DD & MWS7 only
Presence	Auto switch on with detection, auto off after movement ceases and time delay ends.	Product dependant	-DD & MWS7 only
Absence	Manual switch on, auto off after movement ceases and time delay ends.	Product dependant	-DD & MWS7 only
Sw lev on	Lux level setting to prevent the luminaires being switched on if the ambient light level is sufficient (adjustable between 1 and 9). The luminaires will always be switched on at level 9. For a higher resolution of 'switch level on' a scale of 101-199 is available in the 'Special menu'.	9	-DD & MWS7 only
Sw lev off	Lux level setting to switch the luminaires off during occupancy if the ambient light level goes above the setting (adjustable between 1 and 9). Level 9 will always keep the lights on. This setting can be used for "window row switching". For a higher resolution of 'switch level on' a scale of 101-199 is available in the 'Special menu'.	9	-DD & MWS7 only
DSI	Selects DSI dimming	Default	-DD & MWS7 only
DALI	Selects DALI dimming		-DD & MWS7 only
Memorise	If this is set to Yes, the last manual lux level set will be memorised and used as the new switch on level.	N	-DD & MWS7 only
On value	Dimming output level when switched on (0-99).	99	-DD & MWS7 only
Off value	Dimming output level when switched off (0-99). If a non-zero off value is set, then the output will toggle between this value and completely off depending on the switch level on and off values. For example, if it is light outside, the fittings will be off if there is no occupancy. If it is dark outside, they will adopt the preset off value. This feature is only enabled if 'Min value' is set to 99.	0	-DD & MWS7 only
Fade value	After occupancy ceases, this dimming output level is loaded for the fade time (adjustable between 0 and 99).	10	-DD & MWS7 only
Fade mins	This is the time period (adjustable between 0 and 99 minutes) that the luminaire will be held at the fade value before turning off. A value of 0 disables the fade function.	0	-DD & MWS7 only
Max value	Maximum dimming output level (adjustable between 0 and 99).	99	-DD & MWS7 only
Min value	Minimum dimming output level (adjustable between 0 and 99).	1	-DD & MWS7 only
Burn-n hrs	Determines how long the output will be at 100% so that lamps 'burn-in' (adjustable between 1 and 999 hours). The 'burn-in' time is not affected by power supply interruptions. To disable burn-in set to 0 .	0	-DD & MWS7 only
Speed on	Determines the dimming response speed after the setup time has finished. Measured in 0.1 sec intervals.	40	-DD & MWS7 only
Speed set	Determines the dimming response speed during the set up time. Measured in 0.1 sec intervals.	5	-DD & MWS7 only
Set secs	Determines how long the dimming response set-up period lasts on power-up or on setting change (adjustable between 1 and 999 seconds). This enables the desired lux level to be achieved rapidly when the lights come on, or during setup.	120	-DD & MWS7 only
Special	Selects the special menu below		-DD & MWS7 only

Special Menu

IR cmd	Description	Default	Products
Sw lev on	Switch level on Lux level setting to prevent the luminaires being switched on if the ambient light level is sufficient (adjustable between 101 and 199). Use to provide finer adjustment than parameters opposite.	None	-DD & MWS7 only
Sw lev off	Switch level off Lux level setting to switch the luminaires off during occupancy if the ambient light level goes above the setting (adjustable between 101 and 199). Use to provide finer adjustment than parameters opposite.	None	-DD & MWS7 only
DALI on	Provides a permanent voltage to DALI ballasts when DALI has not been implemented correctly in the ballast. Maximum number of ballasts is 10 unless the relay is disabled then it is 20.	Off	-DD & MWS7 only

8. User Menu

IR cmd	Description	Products
Lux up	Increase light level. Reverts when occupancy cycle complete.	All
Lux down	Decrease light level. Reverts when occupancy cycle complete.	All
Scene up	Steps up between 6 pre-defined scenes.	-DD & MWS7 only
Scene down	Steps down between 6 pre-defined scenes.	-DD & MWS7 only
Scene #	Select the individual scene, between 0 and 6. (1 = min. output; 2 = 10%; 3 = 25%; 4 = 50%; 5 = 75%; 6 = 100%)	-DD & MWS7 only
Override on	Permanently overrides the luminaire output on.	All
Override off	Permanently overrides the luminaire output off.	All
Cancel	Cancels the on or off override, returning the detector to normal operation.	All
Set	If sent before using lux up or lux down, it will set the light level as in ' Light lev' found 'Ch2 (dim) set' menu	All

9. Ratings

Battery   4 x 1.5Vdc AA
Temperature 0ºC to 35ºC
Compliance   EMC-2004/108/EC $C\epsilon$
              LVD-2006/95/EC

If any of these symbols are on the product or battery, the product or battery must be disposed of in the correct manner and must not be treated as household or general waste.

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