



CONTROL PANEL ENGLISH INSTRUCTIONS

– MOTORLINE MC 2 / SEAV LRS 2150 SET

230 Volt Single Phase logic control panel for twin motors – pair of swinging gates and single leaf swing gate

Integral radio receiver, for up to 215 radio controls, 433.92 Mhz – ‘narrow band’

Control Panel Terminal Connections:

CN1: - Bottom left hand side of control board

1: 230 Volt a/c MAINS INPUT / POSITIVE

2: 230 Volt a/c MAINS INPUT / NEUTRAL

3: 230 Volt a/c Flashing Light Input / NEUTRAL

4: 230 Volt a/c Flashing Light Input / POSITIVE

5: MOTOR 1 OUTPUT – OPENING MOTOR OUTPUT (Brown or Black) – with Capacitor wire

6: MOTOR 1 OUTPUT – COMMON MOTOR OUTPUT (Blue or Grey)

7: MOTOR 1 OUTPUT – CLOSING MOTOR OUTPUT (Black or Brown) – with Capacitor wire

8: MOTOR 2 OUTPUT – OPENING MOTOR OUTPUT (Brown or Black) – with Capacitor wire

9: MOTOR 2 OUTPUT – COMMON MOTOR OUTPUT (Blue or Grey)

10: MOTOR 2 OUTPUT – CLOSING MOTOR OUTPUT (Black or Brown) – with Capacitor wire

CN2: Bottom, right hand side of control panel

1: Photocells Power Supply – 24 Volt

2: Photocells Power Supply – GND

3: 12 Volt dc, 15 W (12 Volt) – electric lock output

4: 12 Volt dc, 15 W (GND) – electric lock output

5: PUL Open – Close command button INPUT (NA – normally open) – for key switch etc

6: Common GND INPUT – Common connection or relevant accessories

7: PUL PED – pedestrian command input – (NC – normally closed)

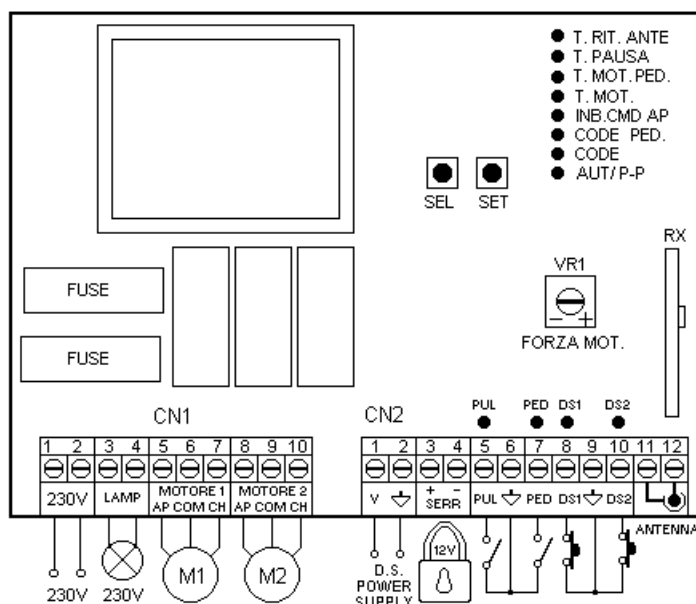
8: DS1 Safety Device INPUT – (NC – normally closed) – for Safety Photocells etc

9: Common GND INPUT – Common connection for Safety Photocells etc

10: DS2 Safety Device INPUT (NC – normally closed) – for Safety Photocells etc

11: Earth Antenna INPUT – bridged to Antenna

12: Antenna INPUT – aerial for radio receiver





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MAIN MENU

The control panel is supplied with default settings that can be modified by changing the settings in the Main Menu.

The default settings are as follows:

AUT P-P	– Automatic operation – LED will be off
CODE	– No transmitter is stored – LED will be off
CODE PED	– No transmitter is stored – LED will be off
INB. CMD. AP	– Not enabled – no allowance for induction loop command – LED will be off
T. MOT	– Enabled, 30 second motor run time only – LED will be off
T. MOT. PED	– Enabled, 10 second motor run time only – LED will be off
T. PAUSA	– Not enable, no automatic close function – LED will be off
T. RIT. ANTE	– No gate leaf closing delay – LED will be off

The whole control panel is programmed by using the 'SEL' button to change the flashing LED which will enter each section of the programming and using the 'SET' button to confirm the changes, as follows:

1) AUT P.P – Automatic operation – Enabled as standard – LED will be OFF

The control unit is supplied with standard automatic operation enabled, so that the gate will close after a timed delay – this will need to be programmed in Step 7. If 'Step by Step' operation is required, please press the 'SEL' button until AUT P.P LED is flashing, then press the 'SET' button so that the LED remains lit. Repeat the process to cancel the function. If automatic timed closing is required please leave this feature as the default setting.

2) CODE – radio control transmitters for standard access

No code is stored as standard – LED will be OFF

PROGRAMMING – To program a new transmitter in to the control panel, simply press the 'SEL' button so that the CODE LED is flashing. Press the desired button the transmitter, the CODE

LED should remain lit which indicates the transmitter code has been stored. This procedure is then repeated for all radio transmitters that are required, up to a maximum of 215.

DELETING – To delete all transmitter codes from the control panel memory.

BE AWARE – This procedure is not reversible.

Press the 'SEL' button so that the CODE LED is flashing, then press the 'SET' button, the CODE LED will switch off which indicates that all transmitters have been deleted from the control panel memory.

3) CODE PED – radio control transmitters for pedestrian access

No code is stored as standard – LED will be OFF

PROGRAMMING – To program a new transmitter for Pedestrian access in to the control panel, simply press the 'SEL' button so that the PED CODE LED is flashing. Press the desired button the transmitter, the PED CODE LED should remain lit which indicates the transmitter code has been stored. This procedure is then repeated for all radio transmitters that are required, up to a maximum of 215.



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DELETING – To delete all transmitter codes from the control panel memory.

BE AWARE – This procedure is not reversible.

Press the 'SEL' button so that the PED CODE LED is flashing, then press the 'SET' button, the PED CODE LED will switch off which indicates that all transmitters have been deleted from the control panel memory.

4) INB. CMD. AP – Induction loop - Inhibition of command during opening cycle.

This function is not set up a standard. – The LED will be OFF.

When enabled, the control unit will ignore the commands of a loop detector when the gate is opening or during the 'pause time'

To enable this function, press the 'SEL' button until INB. CMD. AP LED is flashing, then press the 'SET' button so that the LED remains lit. Repeat the process to cancel the function.

5) T. MOT – To set motor run time and motor deceleration

The control unit is preset to run the motor for 30 seconds, without deceleration.

The LED will be OFF as standard.

Ensure gate position is closed. To modify the motor run time and to set deceleration position and timing, press the 'SEL' button until T. MOT LED is flashing, then press 'SET' button briefly at which time motor 1 will begin the opening cycle. When the initial point of deceleration has been reached press the 'SET' button again, the motor will then decelerate and continue the opening cycle. When the fully open position is reached press the 'SET' button again which will complete the opening cycle. If no deceleration is required, simply press the 'SET' button twice in quick succession to complete the opening cycle.

The T. MOT LED will now start flashing more quickly, at which time motor 2 will begin the opening cycle. When the initial point of deceleration has been reached press the 'SET' button again, the motor will then decelerate and continue the opening cycle.

When the fully open position is reached press the 'SET' button again which will complete the opening cycle. If no deceleration is required, simply press the 'SET' button twice in quick succession to complete the opening cycle.

When the operation is programmed for opening, the T. MOT LED flashes rapidly which indicates the control unit is ready to learn the motor run time for the closing cycle. Now press 'SET' button briefly at which time the motor will begin the closing cycle. When the initial point of deceleration has been reached press the 'SET' button again, the motor will then decelerate and continue to close. When the fully closed position is reached press the 'SET' button again which will complete the cycle. Repeat this process for Motor 2. If no deceleration is required, simply press the 'SET' button twice in quick succession to complete the cycle.

A remote transmitter can be used in place of pressing the 'SET' key during this programming.



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- 6) T. MOT. PED – To set motor run time and motor deceleration for pedestrian access
The control unit is preset to run the motor 1 (Pedestrian) for 10 seconds, without deceleration.

The LED should be OFF as standard.

Ensure gate position is closed. To modify the motor run time, and to set deceleration position and timing, press the 'SEL' button until T. MOT. PED LED is flashing, then press 'SET' button briefly at which time the motor will begin the opening cycle. When the initial point of deceleration has been reached press the 'SET' button again, the motor will then decelerate and continue the opening cycle. When the fully open position is reached press the 'SET' button again which will complete the opening cycle. If no deceleration is required, simply press the 'SET' button twice in quick succession to complete the opening cycle.

The T. MOT. PED LED will now start flashing more quickly, which indicates the control unit is ready to learn the motor run time for the closing cycle. Now press 'SET' button briefly at which time the motor will begin the closing cycle. When the initial point of deceleration has been reached press the 'SET' button again, the motor will then decelerate and continue to close.

When the fully closed position is reached press the 'SET' button again which will complete the cycle. If no deceleration is required, simply press the 'SET' button twice in quick succession to complete the cycle.

A remote transmitter can be used in place of pressing the 'SET' key during this programming

- 7) T. PAUSA – To enable automatic close function
Not enabled as standard – LED OFF

This function enables the installer to commission the gate system for timed automatic closing as follows: Press the 'SEL' key until the T. PAUSA LED is flashing, then press the 'SET' button once and wait for the desired pause time (such as 30 seconds), when the appropriate length of time has passed simply press the 'SET' key again briefly, the automatic closing time is then stored. The LED should remain lit. A remote transmitter can be used in place of pressing the 'SET' key during this programming

- 8) T. RIT. ANTE – Programming of second gate leaf delay
No delay set as standard – LED OFF

The control panel is set as standard to delay the second leaf gate by 2 seconds when opening and to close 2 seconds ahead of the lead leaf when closing.

To alter this programming with a specific leaf delay, ensure the gates are closed. Press the 'SEL' key until the RIT. ANTE LED is flashing, press the 'SET' button once and wait for the required gate leaf delay then press the 'SET' key again.

The second gate will begin to open the desired number of seconds after the first gate leaf, and the second gate leaf will close after the same desired time ahead of the first gate leaf as set.



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EXTENDED MENU 1

The control panel is supplied with non of the extended menu settings enabled, these can only be modified by changing the settings in the Extended Menu.

To access the Extended Menu 1, simply press and hold the 'SET' button for 5 seconds, the T. RIT. ANTE and T. PAUSA LED's will flash alternately and the installer has 30 seconds to select the extended menu functions using the 'SEL' and 'SET' keys as before. After 30 seconds, if no programming has taken place, the control unit will revert to the standard Main menu.

The whole control panel is programmed by using the 'SEL' button to change the flashing LED which will enter each section of the programming and using the 'SET' button to confirm the changes, as follows:

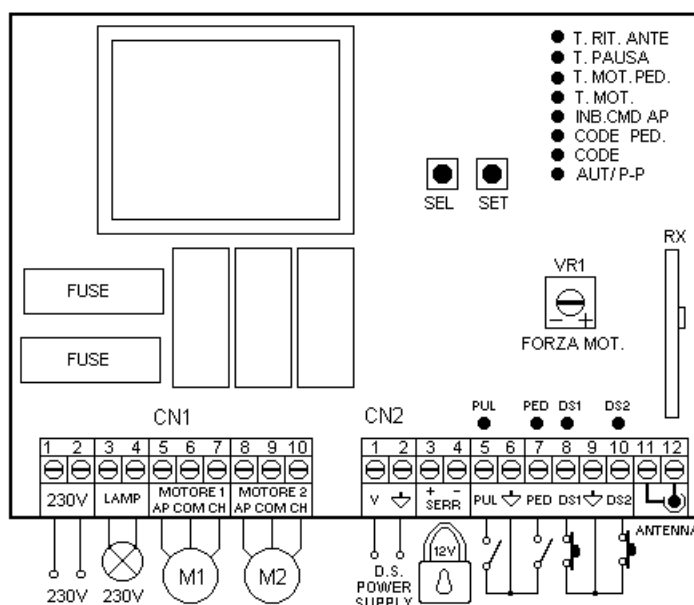
- 1) AUT P.P – To enable remote radio control transmitter coding.
 - Not enabled as standard – LED will be OFF
 - The control unit will allow new transmitters to be coded in remotely, without the need for the user to enter the control panel and press the 'SEL' key
 - PROGRAMMING – Ensure the Extended Menu is enabled. Use the 'SEL' key to set the CODE LED flashing, now press the 'SET' key so that the CODE LED remains lit.
 - To program new transmitters the procedure would be to press and hold an existing transmitter button down for 10 seconds which will put the control unit into transmitter learning mode, then press the transmitter button of the new transmitter to be coded in
- 2) CODE – Photocell Test – not enabled as standard – LED ON
 - To enable this function, ensure the Extended Menu is enabled then simply press the 'SEL' button so that the CODE LED is flashing. Press 'SET' key, the CODE LED should then go off.
- 3) CODE PED – Hydraulic motor maintenance – not enabled as standard – LED off
 - This function will set the control unit to send a closing signal of just 2 seconds to the gate motors every 2 hours, to prevent hydraulic motors sag after time.
 - If this function has been enabled the LED will be ON.
 - To enable this function, ensure the Extended Menu is enabled then press the 'SEL' button until INB. CMD. AP LED is flashing, then press the 'SET' button so that the LED remains lit. Repeat the process to cancel the function.
- 4) INB. CMD. AP – The 'aries' (ramming) effect – for use with electric lock
 - Not enabled as standard – LED will be OFF
 - When enabled the control unit will send a closing signal for 2 seconds to enable the electric lock to be released before opening the gate system.
 - To enable this function, ensure the Extended Menu is enabled then press the 'SEL' button until INB. CMD. AP LED is flashing, then press the 'SET' button so that the LED remains lit. Repeat the process to cancel the function.
- 5) T. MOT – Closure Strike – Not enabled as standard – LED OFF
 - If deceleration and an electric lock have been used, this function should be enabled.
 - This function means that the gate leaves will close with a 1 second added motor run time (at full power) to overcome an electric lock keep.
 - To activate this function, ensure the Extended Menu is activated and then press the 'SEL' button until T. MOT LED is flashing, then press 'SET', the LED should remain lit and programming complete.

- 6) T. MOT. PED – Safety device 2 / Stop Input – Not enabled as standard – LED OFF
- This function enables the control unit to change the operation of Safety Device 2 (CN2 terminals 9 – 10) to the Safety Stop input operation – so that, on any impact during the operation the motors stop immediately. An additional command will be valid provided that the Stop input is deactivated. For example, using a 'Safety Edge' into 'SD2' Safety Device 2 (Terminals 9 – 10 on CN2), When the 'Safety Edge' has been triggered the gate stops in position and will not move again until the obstruction has been cleared and a start signal given. Whereas, the normal operation would be to reverse the motor on impact.
- To activate this function, ensure the Extended Menu is activated and then press the 'SEL' button until RIT. ANTE LED is flashing, then press 'SET', the LED should remain lit and programming complete.

FULL SYSTEM RESET: This is not reversible

To restore all default settings, press the 'SEL' and 'SET' buttons simultaneously, all the RED LED's will light up and then switch off

Please ensure these instructions and the full set of installation manuals are fully read and understood before undertaking any electrical work





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Basic Troubleshooting for incorrect operation of motor and control

- Check the power supply and continuity using suitable meter instrument after open and closed commands have been given.
- Ensure a suitable Capacitor is wired into the Motor Opening and Closing terminals, CN1 –Terminals 5 and 7 for lead motor, and 8 and 10 for second motor.
- If the motor direction is incorrect, such as the gate leaf closes when it has been given an open command, the motor wiring will need to be inverted. Reverse wires into CN1 - Terminals 5 and 7 for lead motor, and or 8 and 10 for second motor.
- Safety Photocells should always be used for safety. If the system is being tested without the Photocells being connected the Photocell Terminals will need to be linked out. On CN2 - Put a link wire from Terminals 8 to 9, and Terminals 9 to 10 to link the Photocells out.
- If the gate control has a problem, disconnect all additional equipment such as intercoms, safety photocells, push buttons etc. Then run tests on the basic system, then re-connect each item of equipment individually and test system until the faulty device has been found and isolated.
- On some control panels the 'Photoelectric Cell Test' has been enabled as standard. If the control panel does not accept a command after full wiring has been completed, check the control panel setting for this test and ensure it is switched off. This will need to be disabled as set out in 'EXTENDED MENU' – SECTION 5.
- If the system motor run times are out of sequence, ensure that the motor run times are set correctly as in 'MAIN MENU' – SECTION 5.