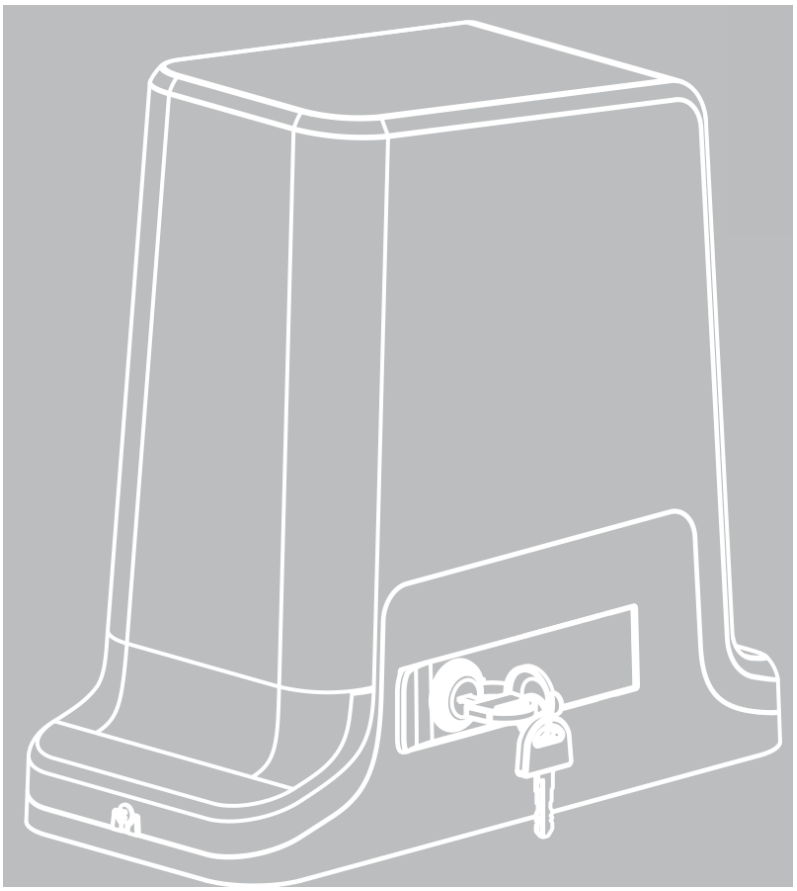
GATE AUTOMATION

Brushless sliding gate operator

Controlled access. Practical engineering.



24 V DC MOTOR	ADJUSTABLE SPEED	MANUAL RELEASE
Brushless drive	Soft start and slowdown controls	Key-operated emergency unlocking

For sliding gate installations at industrial, commercial and private facilities. Selection and commissioning by IRONGATE depend on the actual gate, site conditions and safety requirements.

IRONGATE branded edition | November 2026
Product brochure and English installation reference. Covers the source manual’s 1000 and 1500 variants. Confirm the exact supplied model before installation.

01 / PRODUCT OVERVIEW

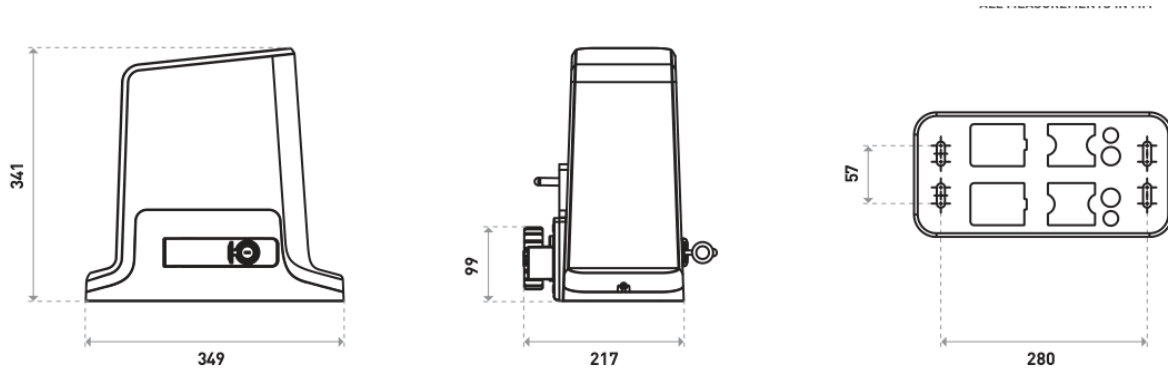
Features & specifications

A brushless sliding gate operator with programmable travel, transmitter learning and configurable control inputs. The control board supports sliding gate logic; its optional barrier mode is a controller function and does not convert this operator into a boom barrier.

Parameter	1000 variant	1500 variant
Motor voltage	24 V DC	24 V DC
Output torque	22 N·m	22 N·m
Gate weight range*	1,000-1,500 kg	1,500-2,000 kg
Motor speed	2,000 rpm	2,000 rpm
Gate travel speed*	15.9-23.8 m/min	15.9-23.8 m/min
Limit switch type	Magnetic / spring	Magnetic / spring
Noise rating*	≤56 dB	≤56 dB
Temperature range*	-45°C to +65°C	-45°C to +65°C
Ingress protection*	IP44	IP44

*Source-stated ratings, subject to verification. The supplied manual lists weight ranges rather than a single maximum capacity for each variant. IRONGATE must confirm capacity, speed, temperature and enclosure suitability against the exact unit and site. These values are not independent test results or certification.

Dimensions | millimetres



Source drawing: 349 mm overall length, 217 mm body width and 341 mm overall height; fixing plate drawing shows 280 mm width. Verify mounting holes on the supplied unit before drilling.

02 / SAFETY

Install safely. Operate safely.

For the installer

• Installation, electrical work and adjustment must be carried out by qualified personnel. Incorrect installation can cause serious injury.

• Before work, isolate the electrical supply and prevent accidental reconnection. Use a properly earthed supply and suitable protective devices.

• Confirm that the gate structure, rollers, guide rails, stops and foundations are suitable. The gate must travel freely and remain stationary when released. Prevent derailment and overtravel.

• Check the unit rating plate, operating environment, supply voltage and gate load. Do not expose the operator or control board to flooding or submersion.

• Route wiring in protective conduit with cable entry from below. Protect all cables against mechanical damage, moisture and moving parts.

• Keep the manual release accessible. Install and test safety devices and all stopping functions before handover. Explain emergency operation to the customer.

For the user

• Keep people, children and vehicles clear of the moving gate. Keep remotes away from children and never resist the gate while it is moving.

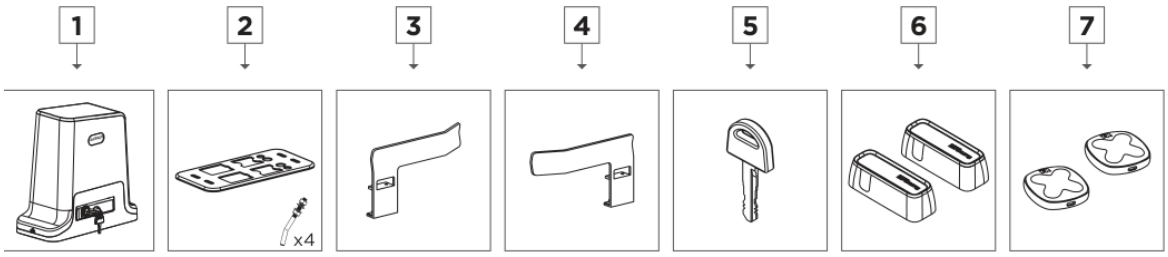
• Do not adjust or repair the motor, controller, hinges or rack. Stop using the system if operation becomes unsafe and contact IRONGATE.

• Keep this guide and ask the installer to demonstrate manual release. Arrange preventive maintenance every six months, or more often where site conditions require it.

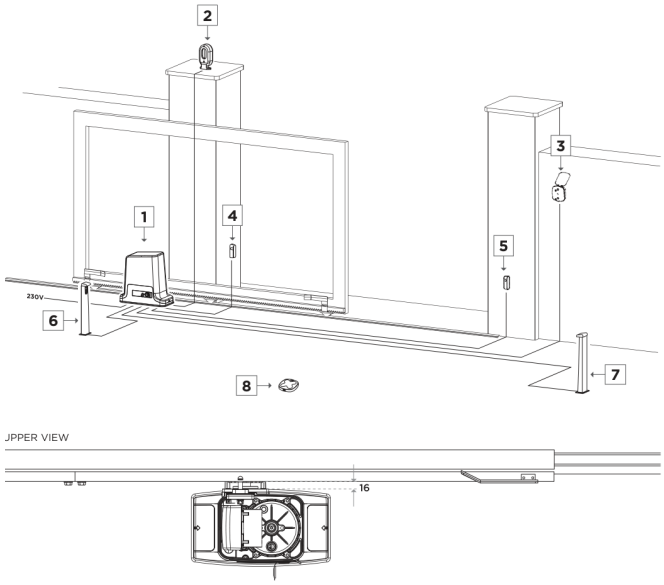
Outdoor installation: IP44 is not a waterproof or floodproof rating. Confirm enclosure placement, drainage and environmental protection before installation.

03 / SYSTEM LAYOUT

Components & site arrangement



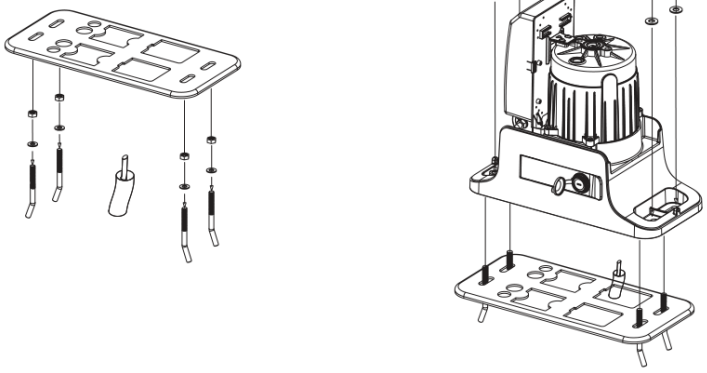
No.	Supplied components listed in source	Qty.
1	Brushless sliding gate operator	1
2	Fixing base	1
3 / 4	Left / right limit switch plates	1 each
5	Manual release keys	2
6	Photocells	2
7	Transmitters	2



Layout key: 1 operator; 2 warning light; 3 key selector; 4-5 external photocells; 6-7 internal photocells; 8 transmitter. The source layout includes accessories beyond its packing list. Confirm the actual scope in your quotation.

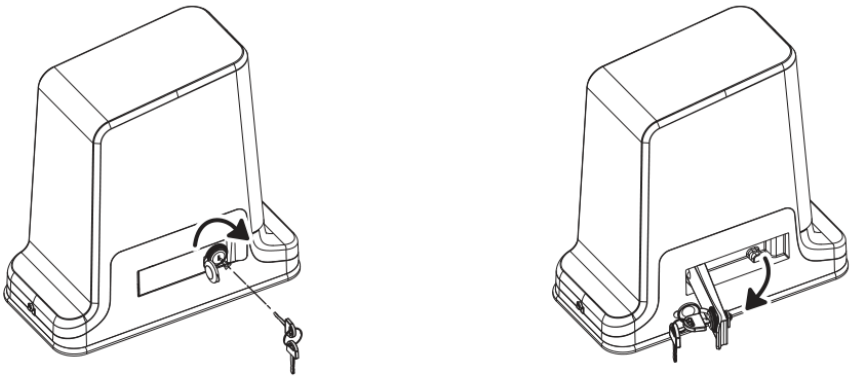
04 / MECHANICAL INSTALLATION

Mounting & manual release



Secure the operator

1. Prepare a firm, level mounting base and secure it to the foundation using the fixing arrangement supplied with the unit.
2. Route the electrical cables before fixing the operator to the base.
3. Align the motor with the gate rack, then tighten its mounting fasteners. Do not energize the system until mechanical and electrical checks are complete.



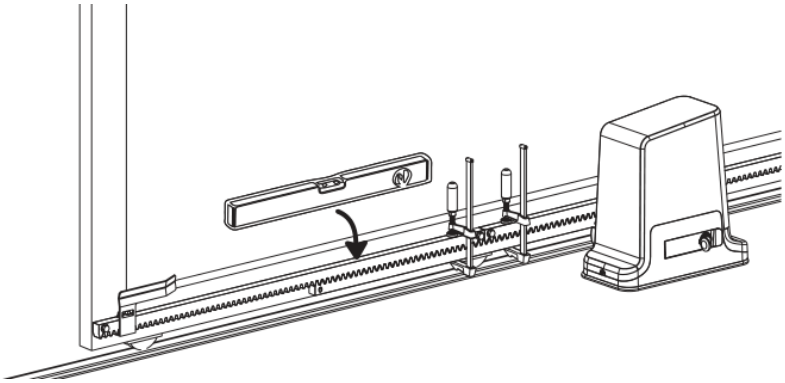
Release the gate for manual operation

Isolate power and ensure the gate cannot move unexpectedly. Open the release lock with the key, turn the key 90° clockwise, then pull the release lever to disengage the drive. Move the gate carefully by hand. To re-engage, return the lever to its original position and secure the lock. Confirm engagement before restoring automatic operation.

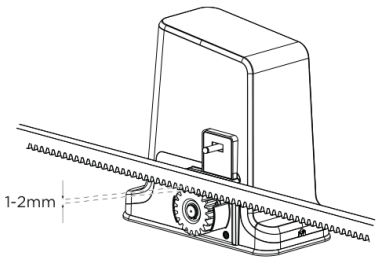
After completing installation, refit the cover and secure it with its two side screws. Keep release keys available to authorized users.

05 / MECHANICAL INSTALLATION

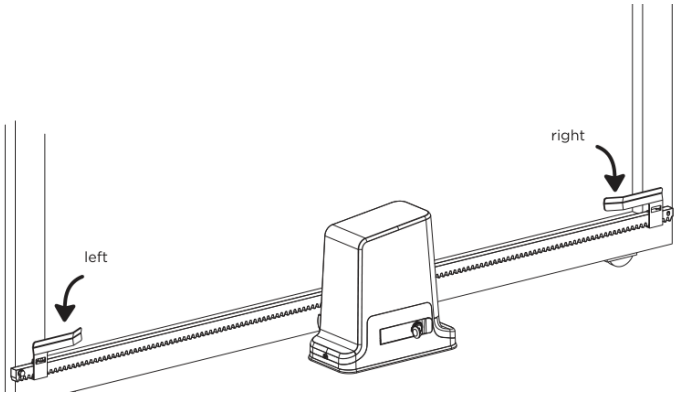
Rack & travel limits



1. Release the operator and move the gate to the open position.
2. Fit the rack spacers. Position the first rack section on the pinion and keep it horizontal.
3. Move the gate by hand to check alignment through the full travel.
4. Attach the rack progressively. Align adjacent sections so the teeth remain continuous.
5. Maintain clearance between rack and pinion; the gate weight must be carried by its rollers, not the operator.
6. Check free movement, then re-engage the drive.



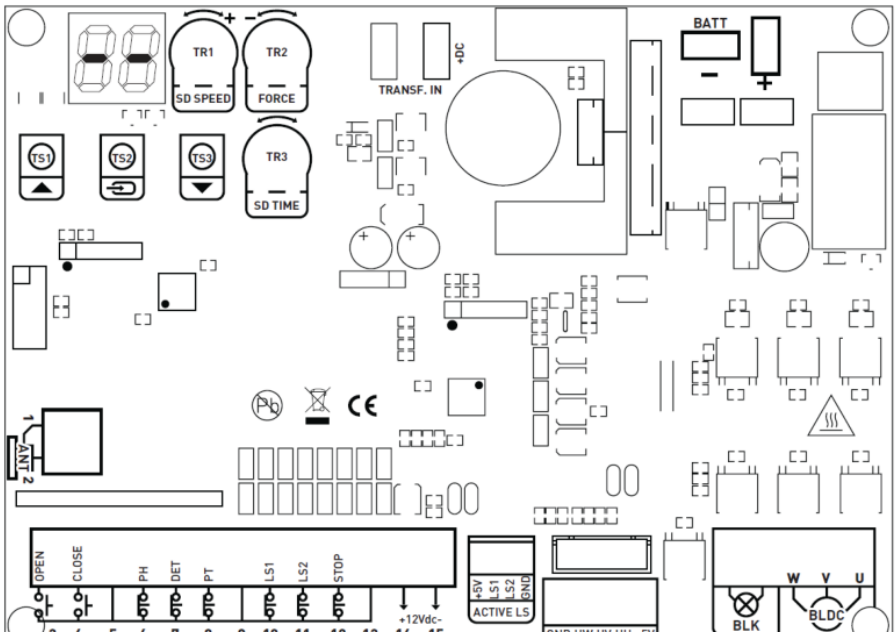
Rack clearance: the source specifies a 1-2 mm gap between the rack and pinion. Set and check this clearance throughout the gate travel.



Limit plates: with the rack installed, position the closing plate at the required closed position and tighten it. Repeat at the open position. Verify stopping points before mechanical end stops and secure both plates.

06 / ELECTRICAL REFERENCE

Controller terminals



Terminal	Function	Terminal	Function
1-2 / ANT	Antenna	9 / COM	Common
3 / OPEN	Open / start	10 / LS1	Opening limit switch
4 / CLOSE	Close / pedestrian	11 / LS2	Closing limit switch
5 / COM	Common	12 / STOP	Stop input
6 / PH	Photocell input	13 / COM	Common
7 / DET	Guaranteed-closing detector	14 / +12Vdc	Accessory positive
8 / PT	Photo-stop / protection	15 / -12Vdc	Accessory negative
BLK / BLK	Warning light output	W / V / U	Brushless motor phases

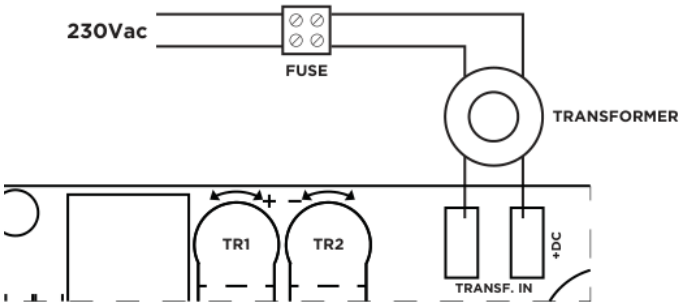
Check the actual board markings before connecting. The source identifies a 12 V DC accessory output but does not state its available current. Confirm accessory loading with IRONGATE. Do not assume that all third-party accessories can be powered directly from the board.

Safety-input polarity is configurable. Match the controller settings to the installed normally open (NO) or normally closed (NC) contacts. Never disable required safety functions merely to make the gate run.

07 / ELECTRICAL REFERENCE

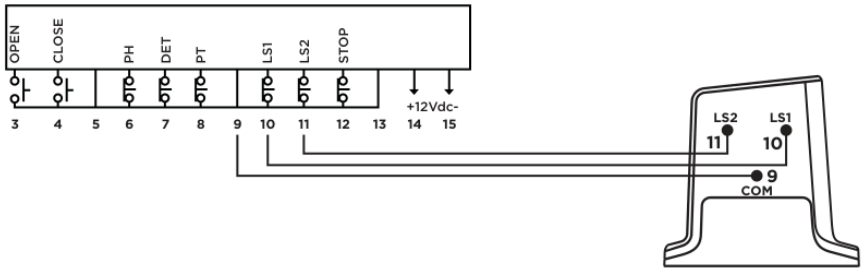
Power, motor & accessories

Supply and motor connections



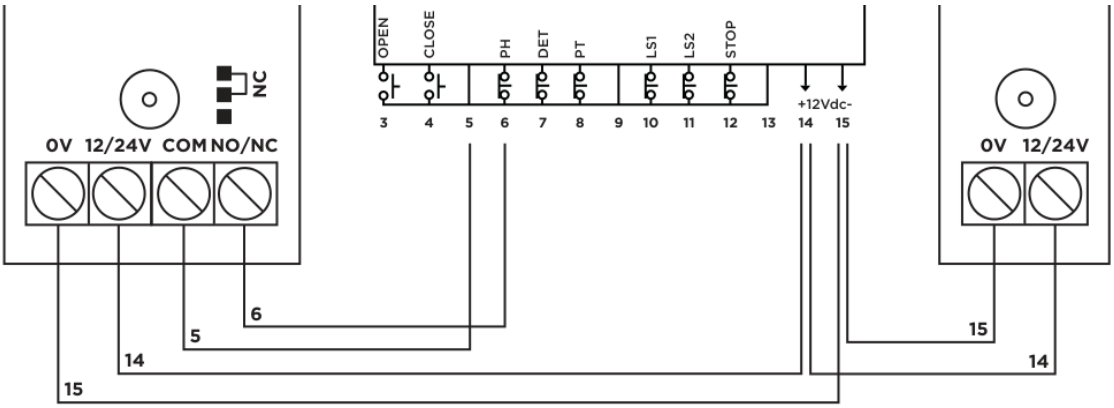
The source wiring shows a 230 V AC input to the transformer and a 24 V DC motor system. Confirm the input voltage and frequency on the supplied equipment rating plate before energizing. Motor phase wiring is shown as W / black, V / yellow and U / red; confirm the supplied harness.

Limit switches



Connect the opening limit switch to LS1 (10), the closing limit switch to LS2 (11), and their common to COM (9). Set the LS polarity to match the installed switches.

Photocells

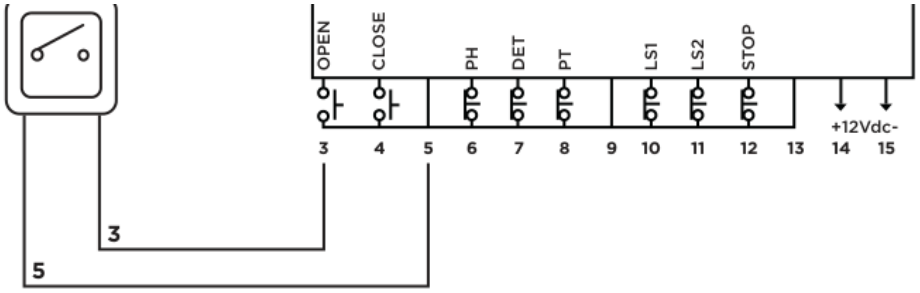


The source example uses a normally closed receiver contact between PH (6) and COM (5). Accessory power is shown at terminals 14 (+) and 15 (-). Set Pc to NC for that wiring and verify safe response to an interrupted beam.

08 / ELECTRICAL REFERENCE

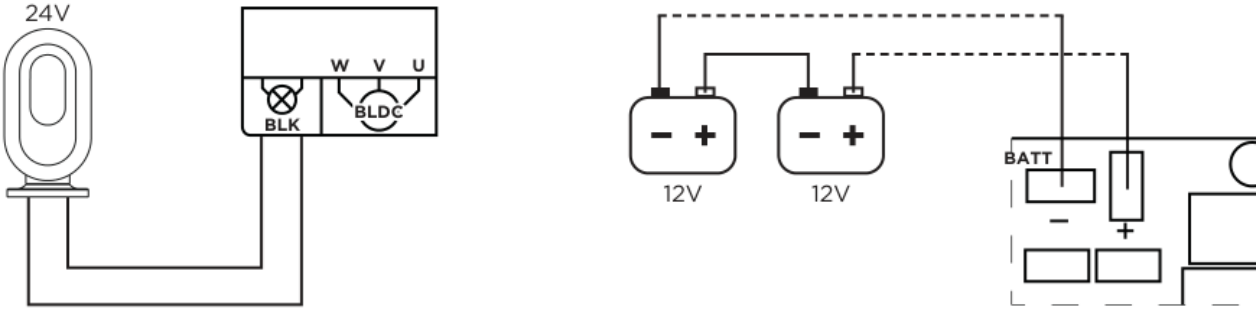
Controls & commissioning

Wall control / start input



The source shows a push button between OPEN (3) and COM (5). The command action depends on the selected operating mode. Use compatible, potential-free contacts and verify operation on the installed board.

Warning light and optional batteries



The source shows a 24 V warning light and two 12 V batteries connected in series to BATT. Confirm the light rating, battery type, polarity, charging support and required protection with IRONGATE before connecting optional equipment.

Commissioning checklist

- Verify supply, earthing, cable protection, terminal tightness and polarity.
- Check manual travel, rack clearance, release operation and mechanical stops.
- Confirm opening direction and both limit switches before travel learning.
- Program travel and set speed, slowdown and force for the gate and site.
- Test stop, photocells, obstruction response and every command device.
- Test automatic closing where enabled, then demonstrate safe use and manual release.

Factory settings are not proof of a safe installation. Inspect and test every safety function on the actual gate before handover.

09 / PROGRAMMING

Quick setup & radio learning

Controls and adjustment

Control	Function
UP / DOWN	Scroll through options or adjust a value.
ENTER	Select a menu item and confirm a setting.
TR1	Slowdown speed adjustment.
TR2	Force / obstacle-detection adjustment.
TR3	Slowdown time adjustment (where fitted).

Learn the working travel | Lt

Hold UP for approximately 3 seconds until Lt appears. If the direction is uncertain, start with the gate fully closed: the controller uses that limit as the closing side. Verify the Gd direction setting. Keep the travel area clear and supervise the entire learning cycle. Use the stop input to interrupt learning.

Add a transmitter | c1

Briefly press DOWN until c1 appears, then press the transmitter button to be stored. If the remote does not work, check the rM radio setting; the source specifies 1b for individual-button assignment.

Remote-to-remote learning | Ar

Enable Ar first. With the gate closed, press the new transmitter three times, allowing at least one second between transmissions. Press an already learned transmitter three times, then press the new transmitter once. Verify operation after learning. The source omits the final confirmation indication; check the actual board response.

Display reference: the board indicates active commands, stop, photocell and limit inputs. During automatic closing, the display shows a flashing countdown. The source duplicates one limit-status description; use the board markings and live input tests to identify each status.

10 / PROGRAMMING

Basic menu reference

Briefly press ENTER to open the basic menu; oL appears. Use UP / DOWN to select an item and ENTER to confirm. Select EH or press UP and DOWN together to exit.

Code	Setting / action
oL	Operating mode; see options below.
Lc	Radio learning: c1 = start/open; c2 = pedestrian/close; c3 = courtesy light. rA followed by YS deletes all stored transmitters.
Lt	Travel / working-time learning. Select the learning option and supervise gate travel.
SP	Automatic-close pause: 0-99 seconds. The source treats 0 as automatic closing disabled.
F5	Maximum speed: adjustable from 3 to 10 (controller setting, not a speed unit).
dM	Hold-to-run mode: oP = open; c1 = close; EH = exit. Hold ENTER to move in the selected direction.

Operating modes | oL

Code	Mode	Source input assignment
St	Step-by-step	3 = start; 4 = pedestrian
At	Step-by-step with auto-close	3 and 4 = start
cd	Condominium	3 = start; 4 = pedestrian
oc	Separate open / close	3 = open; 4 = close
oA	Separate open / close with auto-close	3 = open; 4 = close

Menu codes are preserved from the supplied manual. Letter case and segmented-display characters can be difficult to distinguish; verify them on the actual controller. Confirm each input’s action before enabling normal service.

11 / PROGRAMMING

Advanced menu reference

Hold ENTER for approximately 3-4 seconds until tM appears. Scroll with UP / DOWN; press ENTER to select and confirm. Select EH or press UP and DOWN together to exit. The source states that the menu exits after two minutes without changes.

Code	Function / source options
tM	Working times: t1 = travel time; tP = pedestrian time; tc = courtesy-light time in 10-second units. Source adjustment range: 0-99. EH = exit.
Gd	Opening direction: rh = right; LF = left. Confirm physically before learning.
Pc	Photocell input polarity: NO or NC; EH = exit.
Pt	Photo-stop / protection input polarity. Acts as a photocell in sliding-gate mode and as a protection input in barrier mode. Match the installed contact.
SP	Stop input polarity: NO or NC. This advanced-menu code is separate from the basic-menu pause setting.
LS	Limit-switch polarity: NO or NC.
SS	Soft start: YS = enabled; nt = disabled.
bL	Warning-light / blinker mode: YS or nt. Confirm the effect with the connected light.
d2	Factory reset: YS restores defaults. Recheck every safety and operating setting afterwards; the source does not supply a complete defaults table.
Ar	Remote-to-remote radio learning: YS = enabled; nt = disabled.
rM	1b = store buttons individually (c1 / c2 / c3). 4b = four-button functions: open, close, pedestrian and stop.
cn	Cycle counter displayed as three pairs of digits; 12 - 34 - 56 represents 123,456.
MM	Barrier mass-entry mode. Enabled only with auto-close disabled (pause = 0). Counts detector passages against queued open commands, then closes.
br	YS = barrier logic; nt = sliding-gate logic. Use nt for this sliding-gate application.

12 / SUPPORT

Your IRONGATE contact

Gate fabrication • Gate automation • Vehicle access control

Contact IRONGATE for model selection, installation coordination, safety-device integration and after-sales support. Have the unit’s model, serial number and controller details ready when requesting technical assistance.

Main office

Warehouse A, Mataas Na Sampaloc, Bulihan,
Plaridel, Bulacan, Philippines 3004

Satellite locations

Unit 6B ALogis Biñan 1, Laguna Technopark, Gate 5,
Loma 4024, City of Biñan, Laguna

Purok 2, San Ricardo, Talavera, Nueva Ecija

Sales & service

Contact	Details
Globe	0917-855-3417
Office mobile	0917-104-2066
Smart	0999-885-2113
Email	irongatecity@gmail.com
Website	https://irongatecity.com

Document basis & verification
Prepared from the supplied brushless-operator user/installer manual, V1.2, revision 10/2024. Original technical illustrations and controller codes are retained; English copy has been edited for clarity. Contact locations: IRONGATE website, About Us and refund policy, checked 2 November 2026.

This branded guide does not establish CE, ISO, Philippine regulatory or third-party product certification. Obtain the exact unit’s rating plate, test documents and applicable declarations before making a certification claim. Warranty and supply scope follow the signed IRONGATE quotation or contract.

IRONGATE is the trade name of ABPolinario Trading.