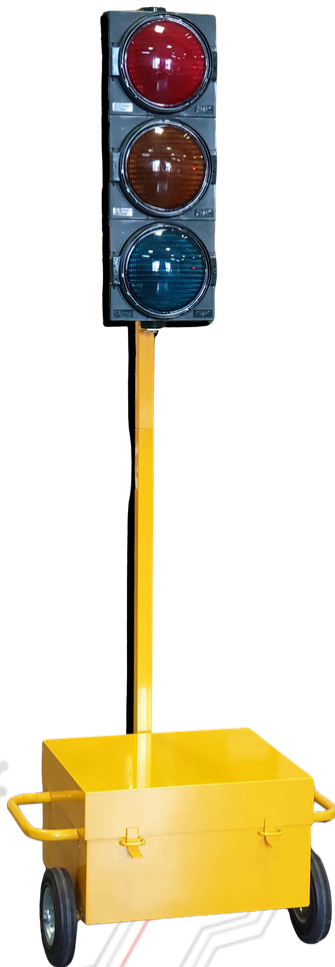




SMC MOBILE

Mobile Traffic Light System

SMC is a traffic signal device specifically designed for all situations that require temporary installations, such as alternating one-way traffic control, intersections, pedestrian crossings, roadworks, and similar applications. It has been developed to offer maximum flexibility and ease of use, ensuring it meets the needs of even the most demanding users.





General Features

- Up to 4 selectable signal groups;
- High precision in standalone mode, maintaining synchronization for up to one month in alternating one-way traffic applications;
- Non-communicating default operation;
- Multilingual menu;
- Dimming function;
- Wired connection capability for communication between up to 4 controllable groups;
- Expandable via Arduino shield connector;
- Multiple signal programs configurable based on time schedules or external events;
- Optional pedestrian push button and vehicle radar sensor;
- Optional GPS for unlimited synchronization between 2 independent and isolated units;
- Optional radio module enabling communication between up to 4 groups over distances up to 1000 meters;
- I/O Module: 2 digital inputs and 2 digital outputs for integration with external equipment;
- Lamp monitoring system to detect signal failure or malfunction.



Operating Modes

- **Standalone Mode:** Designed for alternating one-way traffic applications, this mode operates without communication between the two signal groups. Once started simultaneously, a high-precision quartz oscillator ensures synchronization between the two controllers. If available, GPS can be activated from the menu to achieve absolute precision between the two units.
- **Wired Mode:** Enables communication between 2, 3, or 4 signal groups via RS485 standard. This configuration allows for the management of radars, pedestrian push buttons, time-slot changes, and synchronization—fully configurable through the dedicated app.
- **Radio Mode:** By adding the optional radio module, the same functions as the wired mode are available, with wireless communication between up to 4 groups over distances of up to 1000 meters.
- **Spot Mode:** In this mode, the traffic signals remain in a steady red or green state and initiate a signal cycle only in response to an external event (e.g., radar, pedestrian button, or digital I/O). After completing the cycle, the signal returns to its original predefined state.

Electrical Specifications

- The SMC operates using a 12V battery;
- Maximum power consumption during operation is 20W (with 6W/12V LED signal lamps);
- Operating temperature range: -20°C to +70°C.



SMC Board

- The SMC board measures 136 x 108 mm;
- It is designed to be housed in a plastic enclosure that allows radio waves to pass through.