TOTEM BIKE COUNTER TOUCH

Digital Information System for Smart Cities

Make your citizens more aware, informed, and engaged in urban mobility management.

The **TOTEM BIKE COUNTER TOUCH** displays, day and night, information collected from traffic monitoring stations integrated into the city ITS system, combining multiple technologies to ensure maximum accuracy and reliability.

Data is collected, validated, and made available in real time through the centralized platform **TMacs - Traffic Management Advanced Control**, already in use in Italy and abroad.

Real-Time Public Information

The Full Color RGB LED display (5 mm pixel pitch) with a 64x128 pixel graphic area (320x640 mm) allows the visualization of:

- Daily / monthly / yearly bicycle counts
- Real-time traffic flows
- CO^2 savings
- Current date and time
- Custom messages
- Environmental information (air quality, weather)
- Parking availability

All data is validated by the system before publication to ensure the reliability of the information displayed.

Advanced Detection Technology

The system can integrate multiple detection technologies :

- Radar
- Cameras with vehicle classification
- Inductive loops
- Magnetic profile analysis sensors

In order to offer the best possible service, La Semaforica and Tecsen reserve the right to modify at any moment and without any warning the features of the products described in this document. This document has the only purpose of illustrating the products. If you need detailed technical data, please do not hesitate to contact us.

- AI-based video systems
- Laser scanners

This enables:

- Vehicle classification by length and type
- Analysis of average speed, percentiles, and density
- Real-time flow monitoring
- Historical and statistical analysis with export options (CSV, PNG)

Full HD LCD Touch Display (Optional)

The TOTEM can integrate a 1920×1080 pixel LCD touch display (532×323 mm) to provide:

- Interactive map
- Cycling and pedestrian route planning
- Points of interest
- Bike-sharing stations
- Accessibility information
- Parking availability
- Air quality and weather information

An advanced tool for urban and tourist mobility.

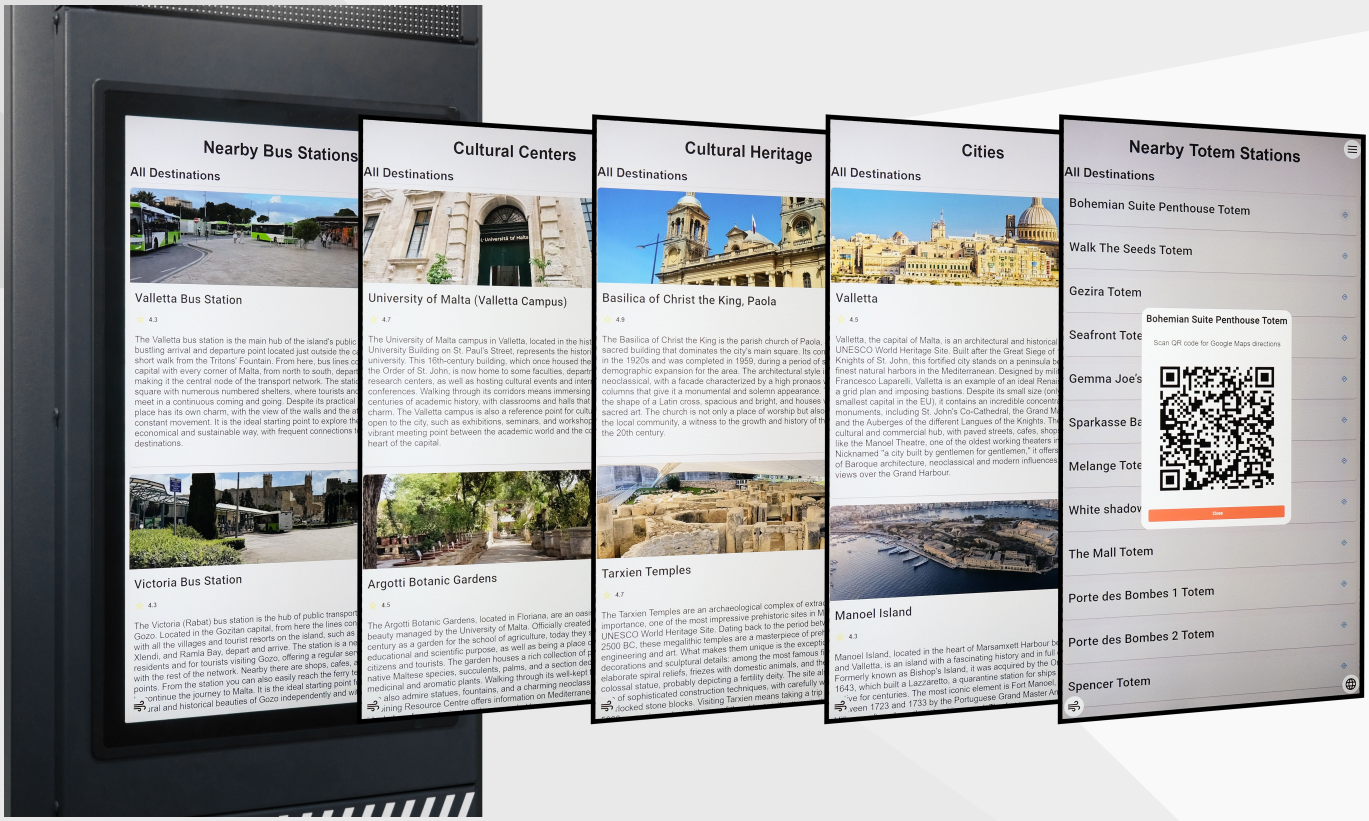
Full Integration with the TMACS Platform

The TOTEM is fully integrated into the TMacs Smart City platform, enabling:

- Centralized remote management
- Real-time monitoring updated every 5 minutes
- Complete historical archive
- Public transport priority configuration
- Management of VMS, restricted traffic zones (ZTL), parking, underpasses, weather and air quality stations
- Custom message scheduling and broadcasting via the MacsVisual module
- Automatic email alert system (TAlert)

TMacs can be configured in:

- Single-server mode
- Multi-server mode
- Cluster / Cloud architecture



Design and Structure

Single-sided totem featuring:

- Powder-coated extruded aluminum column
- Ultra-slim, modern design
- Height: 2500 mm
- Width: 368 mm
- Depth: 140 mm

Available versions:

- Single-sided
- Double-sided
- Compact display for pole mounting

Customizable frame with the Authority's logos.

Advanced Data Analysis – Macs Analysis

Thanks to the Macs Analysis module, it is possible to:

- Visualize traffic flows, speed, and density
- Analyze 15th and 85th percentiles
- Monitor ADT (Average Daily Traffic)
- Display Flow-Density / Speed-Flow graphs
- Multi-scheme vehicle classification (3+1, 4+1, 5+1, 8+1, etc.)
- Export raw vehicle-by-vehicle data

A decision-making tool for data-driven administrations.

Why Choose TOTEM Smart Mobility?

- Engages citizens in sustainable mobility
- Provides certified and validated data
- Improves urban planning
- Strengthens Smart City identity
- Fully integrated with ITS infrastructure

LA SEMAFORICA

TECSEN

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