Parking Systems Signalling





www.ttsys.eu

Our team has the answers to your queries:

+33(0)4 92 08 29 99 ______info@ttsys.fr



Rémo CHIAVELLI Chief Executive Officer

The world changes and TTS innovates.

With over thirty years commitment to the development of new safety and signaling solutions, we continue to maintain standards whilst ensuring that innovation plays its full part.We have the resources to provide you with innovative and proven solutions for traffic management, with over 90% of the added-value achieved using manufacturing facilities in France.





Made in France





The Human Resources, the Means and the Technology

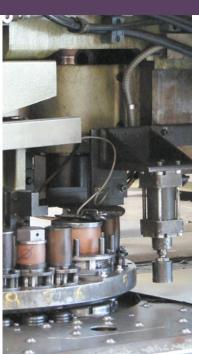




Design office



Integrated welding workshop



Mechanical fabrication unit

Digital graphic conception workshop



Assembly workshop



The Human Resources, the Means and the Technology



Electronics boards manufacturing unit



Numerical plastic and steel plate processing unit

Quality of products and processes

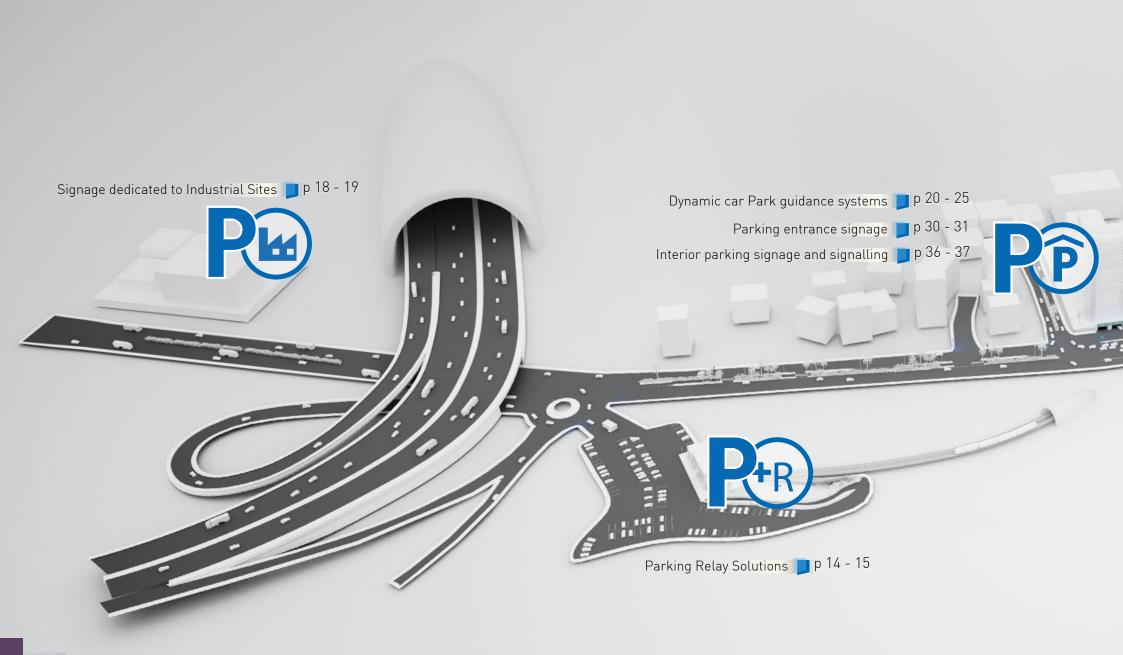
The control of all our processes that is ensured by our staff working in our design office, our manufacturing facilities, our commissioning and after-sales services ensures that we provide you with total quality.



Commissioning and After-Sales unit











Other Activities 📄 p 67

Alternative Power Solutions p 62 - 63

Installation/Maintenance/After Sales Services p 66

Research Department p 64 - 65





Inform and direct upstream

The entrance to the urban area is a strategic place that allows to present the parking offer to the user.

We produce a variety of products adapted to the different configurations of your city. Custom mechanical, electronic and communication design







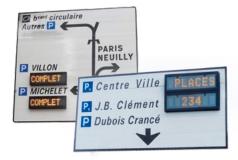




Classic signs

Communicate the parking offer and integrate municipal or emergency information

>> more infos page 10



Road signs

Integration of parking information on standardised road sign furniture.

>> more infos page 11



Digital signs

Broadcast static or animated content in full-colour, parking, municipal or mixed information in real time.

>> more infos pages 12-13

Focus Mechanical solutions

>> p 54-57

Focus Communication solutions

>> p 52-53



Parking information and more with mixed information panels

Frequently, city entrance signs provide additional display space to enable the municipality to communicate with its visitors and residents. City entrance signs thus relay essential information related to the proposed parking offer, but also help to effectively convey municipal or emergency messages.



Open-backed signs SD2 and SD3 ranges

These standardised road signs are used to indicate the directions and capacities of the car parks. Allowing very large display sizes to be achieved, their installation is to be preferred for long legibility distances or high-speed roads.

Static solutions, in backlit poster units or retro-reflective decors

If the dynamic display of available spaces is not necessary, you can still indicate your parking offer with static signs.











Digital signage for content dedicated to parking

Digital signage, with its extraordinary potential, has firmly established itself in the urban landscape. As a contributor to the technological developments that accompany our line of business, for a number of years we have been offering you a range of full-colour display signage offering a major development in communication potential.

In order to combat visual pollution, these signs make it possible to group together parking information and municipal information.

TTS offers you a range of standard formats or adapts the format to your needs.





Technological reliability and software expertise

Thanks to the reliability of our display technology, successfully proven over time, and our software capable of relaying metering information via this type of medium, we offer digital technology signs for the display of parking information, offering real dynamics and detailed intelligence in signage and direction.

Our offer is based on "turnkey" applications and solutions. TTS offers global solutions including media, means of distribution, software, maintenance, monitoring, and training. Optionally, financial hire and insurance of the equipment.

strong contrast DEEP COLOURS even in direct sunlight





Gorgeous

colours

even in direct

sunlight



Economical &

environmentally

friendly

requires less energy



Polycarbonate

protection



Superior

aesthetics



Related services

Parking Relay Solutions



The car park which is not the end of the road

Many cities decide to set up car parks on the outskirts, combined with public transport solutions for getting to the centre.

The development of a relay car park is based on the laudable intention of limiting traffic flows in cities, by encouraging the use of public transport and thus limiting pollution from vehicles in transit.

Users will have to finish their journey by bus, train, metro or other means and must be guided efficiently to the parking spaces.



Parking Relay Solutions



Collect aggregate and partial data

Our data collection systems retrieve the number of free spaces directly from the parking management systems or via our own specific solutions.

The combination of our detection solutions, our supervision software, and our various display solutions allow us to guide you to available spaces specific to the different levels of your car park.

In order to invite the user to access a parking space allowing them to continue their journey stress-free, the entry signage for relay parking often indicates the capacity information for the specific spaces.



Focus

>> p 50

Focus

Partial parking

metering

>> p 51

Management automaton

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Signage Dedicated to Shopping Centres



The complete version of our offer

All of our product ranges find their versions for shopping centres where the flow of light vehicles is greater than on a standard car park, requiring clear and precise signage in order to:

- Allow a better filling rate of available spaces.
- Make the most of vacant spaces before saturation.
- Carry out a greater rotation of vehicle flows.
- Reduce traffic jams, accidents and the CO2 emitted.



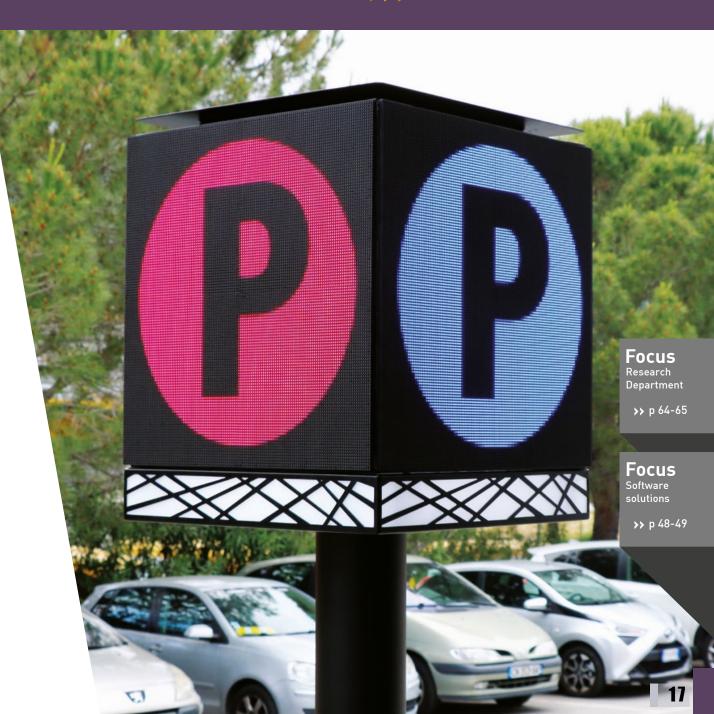
Signage Dedicated to Shopping Centres

Direction, security and aesthetics

For your visitors, our solutions save time finding a vacant space. They place them in a simple and practical, stress-free and favourable context for the visit.

Certain versions of our products also allow more personalised services.

For managers, this translates into an increase in their brand image, and an increase in traffic in their commercial areas.



Signage Dedicated to Industrial Sites



The TTS offer applied to your industrial site

Production sites require effective signage of parking areas to best guide light and heavy vehicles to available parking spaces or loading docks.

Service provided to employees, time-saving and reducing the stress of arriving on time at the workstation.

Periodic increase in the number of people working on the site.

Management of parking information during peak arrival times on-site that generate stress, traffic jams and unsafe manoeuvres.

Monitoring of abandoned vehicles.

Pocket counting or counting in place with dynamic and static signalling.

Implementation of site security features (beacons, mirrors, speed bumps) to reduce the risk of incidents that could lead to work stoppages.

Implementation of regulatory signage according to the standard in force.

Signage Dedicated to Industrial Sites







Guide throughout the route

To sum up the concept of the dynamic parking information signpost system in a few words: providing the motorist with real-time information enabling him or her to find an available parking space as efficiently as possible. Present since the beginning, with hundreds of signs installed in France and abroad, TTS is one of the key players in this field.





Standard information signpost sets, housings with rounded corners or arrows, made only with certified components. Furniture, displays, screen printing are standardised.

>> more infos pages 22-23

We also offer you specific and adapted signpost sets with custom furniture, specific electronics and custom graphics...

>> more infos pages 24-25

solutions

>> p 48-49



Standard signpost signs

Our range of standard dynamic signpost housings consists of rounded corner housings and arrow housings. They may include both dynamic housings and static housings for road housings.

Optimally aesthetic with its through-pole, this mechanism also means that there is no visible cable, thereby improving safety.



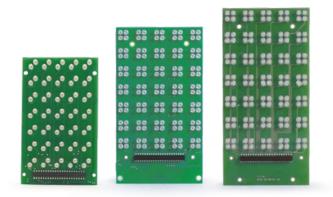


CERTIFIE PAR ASCQUER

Certified furniture and displays

Our dynamic signpost signs are made from certified directional urban furniture, into which we integrate our range of displays, also certified. You thus benefit from a double guarantee of compliance with road regulations.

The most common dimensions are 1900 x 500 mm with 140 mm and 160 mm high displays or 1600 x 400 mm with 125 mm high displays, depending on the available space and legibility distance.



Designs with standardised fonts and pictograms, produced by digital printing on class 2 or 3 retro-reflective film.



Ville d'Aix en Provence

5700 places de stationnement

PLACES LIBRES

PLACES LIBRES

PLACES LIBRES

PLACES LIBRES

AIX

PPASTEUR

P ROTONDE

P MIGNET

24

P MEJANES

AIX

TOTAL AND THE

ALL AND

Specific signpost signs

We also offer specific signpost signs to effectively meet all your needs. Our technical and graphic design office adapts the furniture to your image and your needs, with square corner housings, IP 56, one-piece integrating directional information to several car parks, integrated electronics with matrix, three-colour, four-colour, RGB or full-colour displays.



Specific furniture and displays

Adapted to your graphical specifications, to economic constraints or to a specific need, we design and produce your customised housings.

The displays offered range from monochrome 80 mm to full-colour signs for unrivalled flexibility.

Designs with standardised fonts and pictograms, produced by digital printing on class 2 or 3 retro-reflective film.









VISIO'PARK CITY

Innovative solutions for supervision and guidance on the spot in urban areas

Our system makes it possible to collect on-street information and thus provide a real-time view of parking area occupancy. This allows for the practical management of offences and the more effective deployment of officers in the field.

Installed for many years, this device immediately proved its effectiveness, by eradicating the phenomenon of abandoned cars, which occupy parking spaces in city centres.

Finally, it allows users to be directed to available spaces that correspond to their expectations, by relaying information on the signpost, direction and information signs.

Rue Carnot





«Mini» range of dynamic signposts

Easy to set up in city centres with its reduced dimensions, this product allows you to present information at the beginning of the parking area about the number of available spaces.

It is also possible to mix the display of the number of spaces available on the road with the number of parking spaces in use.





Information boards

Linked to the parking supervision, the information board gives, in addition to information on the number of available spaces, the number of excess vehicles. This encourages offenders to self-discipline.

Short stop terminals

A visual complement to the detection system, the minute stop terminal informs the user and the ASVPs that the parking time has been respected.





Parking Entrance Signage



Information as close as possible to the car park

With our dynamic car park entrance solutions, you will get an overview of the occupancy of your car park as soon as you enter your site. You can streamline traffic by indicating the available levels at the outset with an aesthetic that reflects your image.

We offer you a wide range of products (panels/totems/flags/boxes/ gantries/pediments) and technology (dynamic displays/backlit solutions/full-colour solutions/static solutions) in order to meet your needs.



Parking Entrance Signage





Entrance totems

an elegant welcome, For available in several sizes and models, our totems can integrate all the proposed technologies.



Gantries

In a mechanically welded structure, they promote visual impact and make it possible to manage the gauge of authorised vehicles.



Pediments

Located in the transom of the site entrance, the pediments provide information and attract attention.



Banners & Housings

Indispensable furniture available in an infinite variety of formats, integrable technologies, and fixing methods.

solutions

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Focus Electronic Solutions

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Focus Research Department

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Parking Entrance Totems



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A warm welcome

With a mechanically-welded aluminium or steel structure depending on the size, the car park entrance totem lends a high-quality image to car parks equipped with the large versions. They allow the integration of all display technologies. Its orientation also allows monumental visibility upstream of the site.



Parking Entrance Gantries



The entrance door to the parking space

Parking entrance gantries very often integrate several types of technology and backlighting, but also electronics to display metering information or other specific information. Strategically placed gantries often also carry gauge bars or static signage information such as site speed limits and height restrictions.



Parking Entrance Pediments



The prestigious parking entrance

Allowing to customise the entrance of your car park and attract the attention of drivers, the pediment is designed and adapted to your specifications and your site.



Parking Entrance Banners & Housings

Specific furniture and displays

Car park entrance housings and banners are an essential standard. They are at the same time the last milestone in the chain of signs that brought the motorist to this point, and at the same time the very first sign of the car park. Positioned on the façade or on a pole, with a simple dynamic display or a full-colour solution, we adapt car park entrance banners to your needs and your graphic specifications.





Interior Parking Signage and Signalling



Provide security and direction

The interior of the car parks is a microcosm where moving vehicles and pedestrians intersect. Above all, signage must ensure complete safety for users, while giving them the right information that will enable them to move easily towards their goal.



Interior Parking Signage and Signalling







Electronic range

The level or zone summary boxes make it possible to direct the user as well as possible, towards the available places. They can also display counting information for specific spaces (electric car, PRM, etc.).

>> more infos pages 38-39

Backlit range

Designed for indoor or outdoor signage for vehicles and pedestrians, our LED-backlit solutions have a strong light impact. Our backlit range is available on all of our products.

>> more infos pages 40-41

Static signalling

Our ranges of non-illuminated products offer high-quality and low cost supports for all types of signs and signals for pedestrians or vehicles.

>> more infos pages 42-43

Dynamic Indoor Parking Solutions 📕



Dynamic Indoor Parking Solutions

Focus Management automaton

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Summary signs

The summary signs are located at the entrance to the car park or in a strategic direction area. They make it possible to give the user a summary of the parking offer of the car park and help to streamline the traffic in the car park.

They operate as a slave device on the toll system, on-the-spot guidance or with a counting system implemented by our management robots.

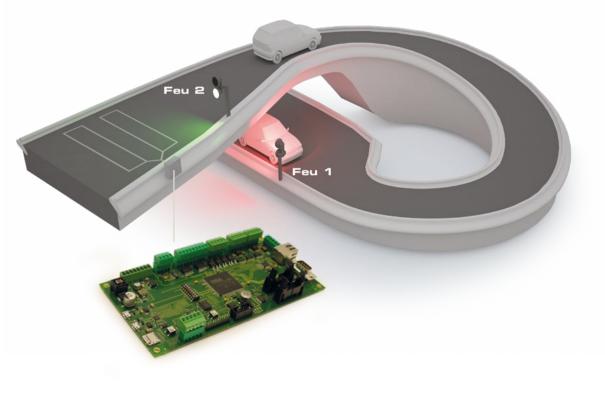


During their journey inside the car park, the user receives useful information enabling them to find a parking space as quickly as possible. Limiting unnecessary walking in the car park contributes to improving the safety of users, the quality of the air they breathe, and more generally the experience of users (both in vehicles and then as pedestrians).





Management of Access Ramps



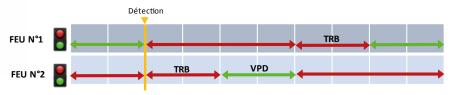


Manage traffic flows

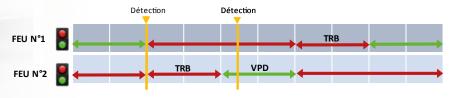
The device manages vehicle priorities in a two-way ramp, not allowing vehicles to cross.

Basic solutions:

Scenario 1: A vehicle is heading towards the exit at traffic light no. 2. The vehicle is detected. Traffic light no. 1 then turns red. Traffic light no. 2 remains red for an adjustable period of time (TRB), then changes to green for the green exit light time (VPD) which can also be set. After VPD, traffic light no. 2 goes back to red. Traffic light no. 1 stays red during TRB, then defaults back to green.



Scenario 2: Several vehicles appear in the direction of the exit. Same as scenario 1. Each time a new vehicle is detected in the direction of the exit, the VPD time is not increased.



Tailor-made solutions : contact-us.

Crossing Lights

The Optics



Safely manage alternating crossings and specific accesses.

Our crossing lights are available in a range of different dimensions, technology, power supply modes and display features (cross/arrow, two-tone optics). Crossing lights are used in different configurations to fulfil different access functions in the parking space. Our wide range guarantees you can choose the right product adapted to your context of use, and if your need is even more specific please ask us, we will know how to make the product you want.

The ''Tailor-made''

Our crossing lights according to your needs.



The Full-Color Display the desired message in colour.







Backlit Solutions

Our light range has benefited from LED backlighting since 2010. Our products allow you to reduce your electrical consumption while reducing maintenance operations.

Thanks to our light range, you reduce your environmental footprint and save energy.



PARKING PRIVÉ

Backlit Solutions





Specific lighting solutions

In addition to the "classic" backlighting solutions in the form of a sign with a backlit surface, we offer specific solutions: extruded Plexiglas, box letters, tangential lighting. This process allows particularly elegant highlighting of the chosen

contents.



Static Signalling and Signage



Eco-Sign range

The Eco-Sign range offers quality PVC and Dibond composite supports at attractive prices for any type of signage intended for pedestrians or vehicles: interior wall, hanging, cut-out or covering letters.



PVC solutions

Used in temporary or permanent signage, PVC supports from 3 to 10 mm offer a good compromise between cost and lifespan.



Composite solutions

Of a higher quality than PVC signs, its quality/price ratio remains very advantageous.

Static Signalling and Signage



Alu-box range (sheet sign)

We offer a range of sheet signs ideal for non-luminous signage on the wall, suspended or on a pole.

The dropped edge sheets from our Alu Box range are both aesthetic and robust.

They are suitable for both vehicle signage and pedestrian signage.



Safety Accessories





Signage complements

We offer specific ranges of products to secure construction sites or particularly accident-prone sensitive areas.

These safety signage products will help you limit risky situations in the event of renovation, work, maintenance, repair, breakdown or simply in routine operation.

They will protect the staff and stakeholders present on your site and will facilitate their interventions.

Our range of safety signs also includes mirrors, gantries and gauges as well as mounting products.





Fixed or pivoting height limitation gantries

The gantries serve as an information medium indicating the limitations and prohibitions in the area concerned, or support a pediment indicating the name of your car park. Pivoting, they also allow access to vehicles of large sizes for maintenance or other interventions.

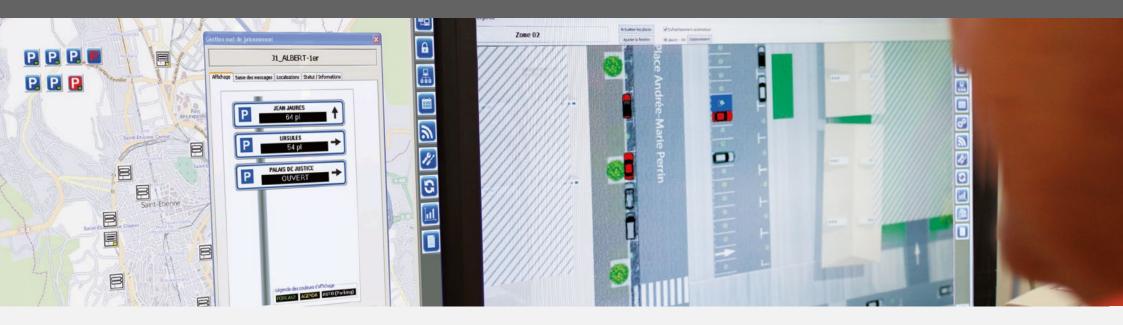
Gauge bars

The gauge bar is recommended for managing, protecting and limiting access to traffic by large vehicles, on a private road, a public thoroughfare or the entrance to a car park.

Diameters 60 to 90 mm in aluminium or steel, they are fitted with retro-reflective strips for perfect visibility.



FOCUS Software Solutions



From equipment to software

Because isolated dynamic equipment will only partially satisfy your need, TTS offers dynamic equipment, a whole range of software and adapted communication systems.

All our software is developed in-house using object-type programming and meets the operating requirements specific to each type of equipment. They can all be customised according to your project.

DEDALE parking supervisor

Dynamic parking signposting is a specific application in the field of dynamic signage. Dédale is the TTS application dedicated to piloting a dynamic signposting system.

In continuous development for many years, this software brings together all the essential functions for the management of your system.





Organise dynamic display

With the rise of full-colour digital signage, car park signage media are no longer only intended to relay metering information, but also promotional, advertising or emergency communication messages. This type of display offers great perspectives and is now very simple.

In order to display the right content at the right time, our software makes it very easy to plan media distribution In addition, our system can also trigger a scenario automatically.

Capable of broadcasting videos, images, text... Our software is also capable of displaying dynamic content and flows from our DEDALE parking supervisor. Our software is therefore often combined in order to display mixed content, by offering, for example, an ad (municipal/ advertising...) and parking information alternately or simultaneously (multi-zoning).



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Focus Management Automaton

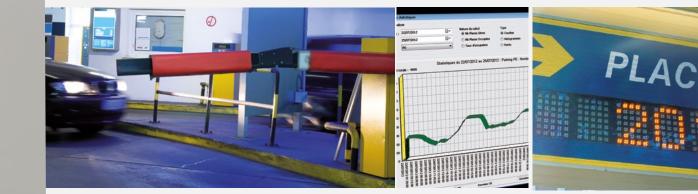




Collect relevant data

The credibility of a dynamic signposting system, a car park entrance count or a level count is linked to the relevance of the data displayed. We carry out complete metering with our automated systems or partial metering with toll system metering, or via their own specific solutions.

Today we have software and hardware interfaces with all the parking management systems.



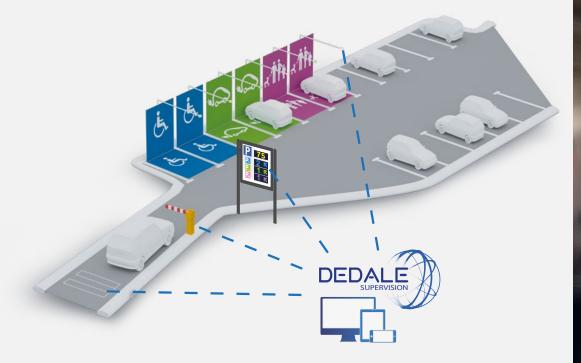






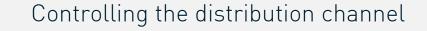
Inform the user of the availability of specific spaces

In order to improve the service without setting up a complete on-the-spot guidance system, we propose to take over the overall counting of the car park on the barrier system or on our machines, and to set up on-the-spot counting at the specific locations.





FOCUS Communications Solutions



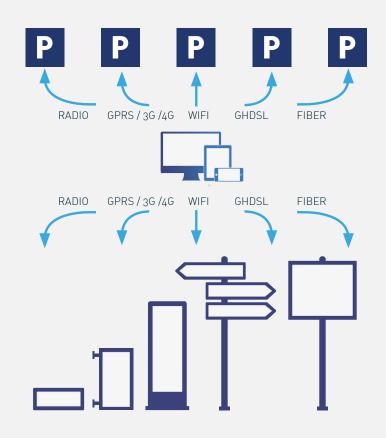
Routing information to the distribution medium is a major step in the system, and echoes the software, security policy and technological layers. It is controlled by the software architecture that packages and transmits the information and/or receives it. But at the same time network technology defines and guides the ergonomics of the programming. Thus transmitter and diffusion channel form a couple which must be perfectly controlled, to guarantee the reliability of the system. So you can always be sure you're in complete control.



Adapt to all transmission networks

We integrate all types of transmission networks. Our system transmits the information to the signs via wired (copper, fibre) or wireless (radio, GPRS, etc.) transmission means.

In the same city, we can mix several technologies depending on the existing infrastructure.







One need, several solutions

We make it a point of honour to adapt the mechanical solution to your case. Need for standardised furniture, budgetary constraints, installation in difficult climatic zones...

TTS offers you a complete range of welded or mechanically bolted signs as well as steel or aluminium support poles.



Certified Range

Bent aluminium sign with through-pole, the assembly is manufactured according to standard EN12966.

This solution is recommended for urban installations.



Enduro range

Aluminium sign made of sturdy profile with a pole at the back, its mechanically welded structure and its front door with seal and compression latches gives it an IP56 rating. Ideal for very harsh environments.



Premium range

A more economical bolted mechanical range with a pole on the back or through this solution, which can be used both indoors and outdoors, offers the best value for money.

Focus Our Mechanical Range : Standardised

NF CE



Certified furniture

Our signpost signs are made from curved aluminium profiles with a mechanically welded internal structure. Fixed on an aluminium through-post without any visible mounting. They fit perfectly into an urban environment.



Focus Our Mechanical Range : Premium



Reliability and elegance

The boxes of the Premium TTS range have helped to establish the quality of our products with our different customers. Available in all formats and suitable for both indoors and outdoors, they allow elegant and careful integration of our electronics, our backlighting systems, or mixed solutions.



Focus Our Mechanical Range : ENDURO



The solution for harsh environments.

Our ENDURO mechanical solutions are the fruit of TTS expertise acquired in the most hostile contexts of road signs, passenger information, car parking...

Ideal for very harsh environments such as high mountains, seaside and hurricane zones, its durability has been proven for many years all over the world.

They have LNE certification from the national metrology and testing laboratory and have IP56 protection rating.

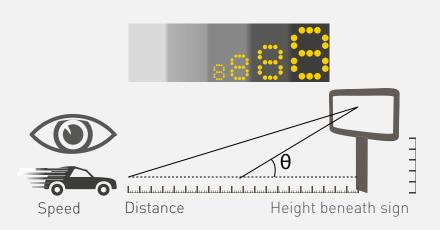


Focus Our Range of Electronic Displays



A full range of displays

To define the character height corresponding to the distance from the sign, the calculations take into account various parameters such as the position of the sign in relation to the road user, the time required for reading, the speed at which the vehicle is travelling, the visual acuity of the driver.



Readability distance limit (m)	character height recommended value (mm)
35	80
40	90
55	125
60	140
65	160
90	200



FOCUS Our Range of Electronic Displays

Smart products

The products in the TTS electronic range are entirely designed and developed in-house, and benefit from the expertise acquired through their daily use for parking signage projects in France and abroad.

Developed to best meet the expectations of our customers and their various needs, our electronic boards are developed to offer quality, durability, ergonomics, economy, ease of installation and commissioning.

A smart product, our boards can be interfaced with a very wide range of access control and on-the-spot guidance systems.

We provide and guarantee the commissioning, training and maintenance of our systems and software.







Another layer of specificity

To respond favourably to all your requests, we are continually adding new options to our product lines.

- Specific formats
- Context of use
- Accessibility
- Specific power supplies
- Communication
- Forced ventilation
- Central heating with thermostat
- Dust filter

- Anti-vandalism lock
- Large structure
- Specific mounting
- Lightning arrester
- Specific paint finish
- Class 3 retro-reflective decors
- Decors with anti-graffiti protection
- Anti-reflection surface





N°1 in terms of Modular design Contact-us Options for creating special signals **Control Options** Radio remote control SMS **Detections Options** Speed detection radar Movement Detection Radar Outline detector **Timer Options** Weeklv Annual Power Supply Options Solar, Public lighting, 230 V, Differential cut-out **Communication Options** Software development options Radio, GPS, 3G, 4G, Wifi, GHDSL, Fiber Customised specifications...

Since 1998, our illuminated signage has been adapted to your specific needs.

Our design office keeps an eye on the latest technological developments, allowing us to create the signage best suited to your expectations on a daily basis.

FOCUS Alternative Power Solutions

Alternative power solutions

Facilitating installations, reducing the costs of heavy civil engineering, administrative procedures, connection and subscription fees and, finally, offering more respect for the environment: this is the ambition of power supply solutions replacing the 230 V meter connection.

Street lighting power supplies

The connection of elements to a public lamp requires little civil engineering work. The power system consists of a housing, comprising one or more batteries. These are charged during the night (when the lighting is active), for a 24-hour power supply. 8

Places libres

P9

FOCUS Alternative Power Solutions



Solar power (photovoltaic)

Environmentally-friendly and economical in the short term, solar power is a stand-alone power supply, with no civil engineering, connection or subscription costs. The use of solar energy is also the simplest mode of power supply for the installation of LED panels in remote areas where the electrical routing is complex.





Wind energy in addition

Depending on the location and thanks to technological developments in the field, the use of a wind energy generator is nowadays a viable and profitable solution in addition to giving the site a positive design and communication



FOCUS Research Department



Standard... Custom

From the outset, we have designed and produced parking signage furniture. To achieve this objective, we are at your side to accompany you on-site to find suitable solutions. Active from the taking of the survey, to the installation of the equipment, and through all the stages that accompany the completion of a project:

Formulation of a suitable commercial proposal/ Design office design/Supply/Industrialisation/Shipping/ Installation/Maintenance.

Graphical specifications design

Do you have graphical specifications? Our graphic designers implement them by adapting them, if necessary, to the specificities of the site.

Otherwise, TTS offers you the creation of a visual identity in your image. From the choice of colours to fonts, we accompany and advise you in the respect of the standards relating to private or public car parks.

FOCUS Research Department

Mechanics, Electronics, IT

Made up of a team of engineers and technicians in mechanics, electronics and computer science, our design office benefits from the skills of the talents that keep its dynamic alive.

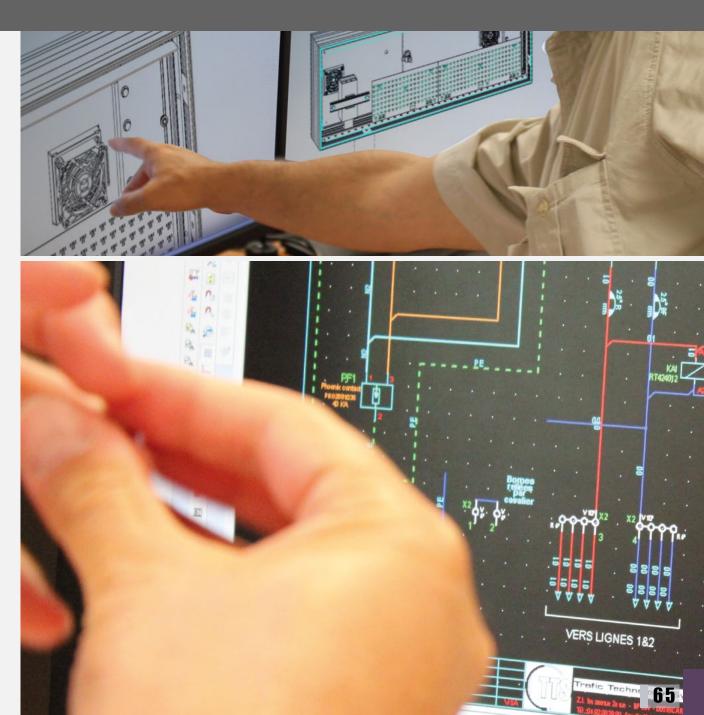
This is the number one strength of our company, underlying all our projects, both nurtured by experience and expertise but resolutely turned towards the future. In order to keep alive the credo of our company, which is always focused on you: «Adapting to your needs».











Installation/Maintenance/After Sales Services



66

TTS.

Installation service

TTS Parking works in collaboration with regional partners to ensure the installation of your equipment anywhere in France, whatever the constraints (massifs, use of cherry-pickers and crane trucks...).

We offer a local service with high-quality deliveries, for improved responsiveness and reasonable costs.

Optional maintenance

Achieving your projects is our goal. But taking care of it once the installation is in place is a duty to which we hold dear.

Our TTS technicians visit your sites and equipment once or twice a year.

They are used for the cleaning of surfaces during LED relamping operations, damage inventories... all replaceable at special rates.

After their interventions, a detailed and complete report is given to you.

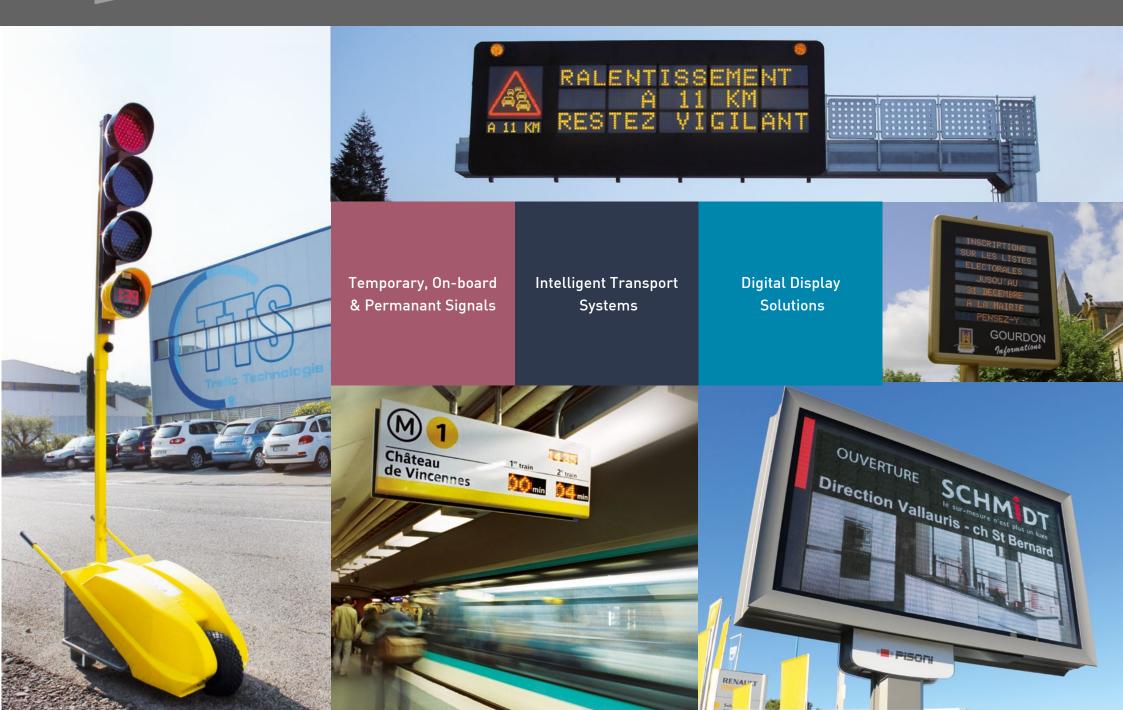
After-sales service

Our after-sales service offers you a curative aspect in our maintenance contracts: Just phone our team (confirming by fax or e-mail), and our teams will come out to you within 72 working hours to diagnose the following breakdowns:

- Failure or malfunction of your dynamic or static signage.
- Replacement of defective parts.
- Transition of your illuminated signs into LEDs...
- Servicing and maintenance contract for signs

This local service is not bound by a contract. The services are invoiced on the basis of unit prices (travel price list, hours spent by technician(s) and spare parts), which we offer at special rates taking into account travel, work hours and changes in rates.

Other Activities





Headquarters and manufacturing center:

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