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T U N N E L S & U T I L I T Y T U N N E L S

JANUARY 2023



FS82426

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EHEMISHKA TUNNEL, BULGARIA

DURTOX CO & NO₂, anemometers and opacimeters. March 2022.

Located on the A-2 HEMUS motorway, the Echemishka Tunnel has been in operation since 1984. It is 765 meters long and after some rehabilitation work to guarantee safety, it is fully passable. For the detection of toxic gases, the DURTOX 4-20mA CO and NO₂ detectors manufactured by Durán Electrónica have been chosen, and for environmental control, anemometers and opacimeters distributed by Durán Electrónica.

ZHELEZNITSA TUNNEL, SOFIA, BULGARIA

DURTOX CO & NO₂, anemometers and opacimeters. January 2022.

From the town of Simitli and via the Struma highway, exit the longest road tunnel in Bulgaria. It has 2 tubes of 2 kilometers long each and is equipped with all the necessary systems for lighting and ventilation, among others. The detection of toxic gases is proposed by means of DURTOX 4-20mA of CO and NO₂ manufactured by Durán Electrónica as well as for environmental control if opacimeters and anemometers distributed by Durán Electrónica are installed.

PAMPLONA TUNNEL, NORTH OF SANTANDER, COLOMBIA.

DURTOX CO & NO₂. Environmental Control. December 2021.

The Pamplona tunnel is the first bidirectional work in Norte de Santander with a length of 1,400 meters and an emergency gallery of 924 meters with three access points. It is built in section 1 of the Pamplona-Cúcuta project, considered the most important in this region. The detection of toxic gases is carried out with the DURTOX 4-20mA CO and NO₂ detectors manufactured by Durán Electrónica and for environmental control, opacimeters, anemometers, luminance meters, lux meters and a meteorological station distributed by Durán Electrónica have been installed.

LIMA AND CALLAO METRO, LIMA, PERU.

DURTEX X-HC PRO. August 2021.

The Lima and Callao Metro is the metropolitan railway that ended the Lima Tram. Made up of railway rolling trains and six lines within its Basic Network system. It reaches 165 km. Its line 2 Stage 1A runs from East to West through the city, linking the district of Ate with El Callao, providing a great quality of life to citizens by decongesting the dense traffic generated so far. For the detection of hydrogen in the battery room of this Line 2, the DURTEX X-HC PRO detectors have been chosen.

VITINIA TUNNEL, BULGARIA.

Heat Detection Cable. April 2021.

The Vitinia tunnel is a mountain pass in the Balkans. With a length of 1,185 m it is the longest in Bulgaria. In its reconstruction, the structure has been strengthened, its lighting, ventilation systems and intelligent signals have been improved.

TUNNELS UF-5-6-7 THE COCOA ROUTE, BUCARAMANGA AND BARRANCA-BERMEJA, COLOMBIA.

Opacimeters, Anemometers, DURTOX CO & NO₂. May 2020.

This road includes the construction of two tunnels: La Sorda and La Paz of 5.96 kilometers in length that allow to save the rugged terrain of the Serranía de La Paz, connecting the departments of Antioquia and Santander to the Magdalena River and being part of the communication corridor with Venezuela.

GIBRALTAR TUNNEL

DURGAS CO & NO₂, Opacimeters, anemometers. June 2020.

Construction of a tunnel from the border, crossing of La Línea de la Concepción in Cadiz to the airport. This project consists of the construction of a new 1.24-kilometers communication highway to Gibraltar Airport that will prevent the current route that crosses the airport's flight runway.

TUNNEL THE MELON, VALPARAISO, CHILE.

Opacimeters, anemometers, luminancimeters & gas Detection. May 2020.

The tunnel is located on Route 5 North, connecting the provinces of Quillota and Petorca of the Valparaíso region and through the hills Las Estaquitas, Los Carcoles, Los Quillalles and El Espino. It has a total length of approximately 5 kilometers, of which approximately 2.52 km correspond to the tunnel and the remaining length corresponds to the north and south accesses to it.

CHIMALPA TUNNEL, MEXICO

Opacimeters & Luminancimeters. May 2020.

Located on the Toluca Naucalpan highway in Mexico, the Chimalpa I tunnels of 530m long and Chimalpa II of 225m in length are equipped with the highest technical solutions and a modern waterproofing.

TUNNELS OF ALPEDRINHA AND GARDUNHA, PORTUGAL.

Opacimeters & CO gas detection **October 2019.**

In these tunnels located on the southern slope of the Sierra de la Gardunha opacimeters have been installed and protected with CO detection.

URBAN TUNNELS, PORTO, PORTUGAL

Opacimeters **October 2019.**

Two urban tunnels in the city of Porto have been equipped with two opacimeters.

D'ENVALIRA TUNNEL, ANDORRA.

DURGAS, EURODETECTOR CO & NO₂, Opacimeters, Ultrasonic anemometers **July 2019.**

This tunnel with a length of 2,879 meters opts for the renovation of its existing DURGAS system with CO and NO₂ EURODETECTORS, Opacimeters and ultrasonic anemometers.

LINE OF THE REDENTOR, ARGENTINA-CHILE.

Anemometers & Weather Stations **April 2019**

The tunnel of the Christ the Redeemer, is officially designated as the Los Libertadores International Pass. It is an automotive border crossing that connects Argentina and Chile through the Andes mountain range. It is located at an altitude of 3209m above sea level and measures about 3km long.

LIBRAMIENTO SUR II DE MORELIA TUNNEL, MICHOACÁN, MÉXICO.

Opacimeters, vane anemometers, converters, cup and vane anemometers, CO and NO₂ detection. **August 2018.**

The excavation of Tunnel II of the Carmelinas de Morelia branch will have its access in the Mil Cumbres exit. It is protected with products manufactured and distributed by DURÁN ELECTRÓNICA.

RUTA AL MAR. COLOMBIA.

Weather Stations. **June 2018.**

The project contemplates a route of 409 km and goes through the towns in the Sucre and Córdoba Departments. The Antioquia-Bolívar road has been provided with the Compact Meteorological Stations distributed by DURÁN ELECTRÓNICA.

MANZANILLO RAILROAD TUNNEL, COLIMA, MEXICO.

Opacimeters, vane anemometers, converters, cup and vane anemometers **February 2018.**

The Manzanillo railroad tunnel will communicate the Vaso II railroad viaduct in Cuyutlán lagoon and the port of Manzanillo. Air quality control is carried out with the installation of opacimeters, vane anemometers, converters and cup and vane anemometers, distributed by Durán Electrónica.

LÍNEA AMARILLA TUNNELS, LIMA, PERÚ.

Opacimeters, Sondeltox CO,NO & NO₂, Vane and cup and vane Anemometers. **December 2017.**

Línea Amarilla Project gives its name to the new connection route between the limit of the city of Callao and Lima. It is composed of 10 viaducts and 9 kilometers of new roads. The construction of two-way tunnels has a length of two kilometers. They cross under the Rimac river up to the area of the historical center of Lima. Also, they include video surveillance, fire alarm systems and anti-seismic design.

SUPERVÍA PONIENTE, MEXICO.

DURTOX CO & NO₂ **November 2017.**

The Supervía Poniente is a road project that brings together the Santa Fe area in México Federal District and the Beltway Ring through various tunnels, bridges and fast roads. This mega work has as purpose to solve the connection problems around the area of Santa Fe. In the tunnels along this way and at the Avenida de los Poetas there are installed DURTOX CO and DURTOX NO₂.

BOGOTÁ-VILLAVICENCIO ROUTE TUNNELS, COLOMBIA

SONDELTOX CO, DURTOX NO₂, Anemometers & Opacimeters. **August 2017.**

The Bogotá-Villavicencio route, with dual carriageway, is 28,9 Kms. in length. This beneficial infrastructure includes ten bridges and four tunnels. One of them, located between Guayabetal and Puente Quemame, is the fourth longest in Latin America with a length of 4,4 Kms. The tunnel is built to the highest quality standards and technology, with, for example, an Automatic Incident Detection system and an underground evacuation gallery.

For the carbon monoxide gas detection systems of these tunnels, SONDELTOX detectors have been selected, manufactured by DURÁN ELECTRÓNICA. Air quality control is carried out with anemometers and opacimeters distributed by DURÁN ELECTRÓNICA.

SUBWAY TUNNEL IN MASHHAD, IRAN.

Vane anemometers, **May 2017.**

Mashhad is the second largest city in the country. It is located very near to the border with Turkmenistan and Afghanistan. The Mashhad city railway, or Metro, is the second fast transit system in Iran. In the new Line 2 of the Metro vane anemometers distributed by Durán Electrónica have been installed.

ESCENICA ALTERNA TUNNEL, ACAPULCO, MEXICO.

Opacimeters, Sondeltox CO, Anemometers, Luminancimeters, Fibrolaser III®, Fire Detection and Weather stations. **January 2017.**

The Escénica Alterna tunnel is 3,155 m long in Acapulco and is the longest tunnel in Mexico, a macro tunnel that will bring together the Diamante and Dorada areas of Acapulco. This complete project is composed of the tunnel and of 4 Km. long elevated viaduct that will connect it in the Northern section with the Metlapil highway.

For the gas and fire detection systems in this state-of-the-art tunnel, products manufactured or distributed by DURÁN ELECTRÓNICA have been chosen. Air quality control is carried out with anemometers, opacimeters and luminance meters distributed by DURÁN ELECTRÓNICA.

INTERLOMAS TUNNELS, MEXICO.

Opacimeters, DURTOX CO & NO₂, Vane anemometers **December 2016.**

These tunnels are part of the first stage of the project for a connection viaduct between Interlomas and the new Naucalpan-Toluca highway.

For the gas detection systems in this tunnel, the DURTOX gas detection system, designed and manufactured by DURÁN ELECTRÓNICA, has been chosen. Air quality control is carried out with opacimeters and anemometers distributed by DURÁN ELECTRÓNICA.

FOLLO LINE PROJECT, OSLO, NORWAY.

DIREX CO₂, SONDELTOX CO, DURTOX NO₂, Vane anemometers, T+H sensor. **May 2016.**

The rail tunnel in this project will be the first long railway tunnel in Norway with separate twin tunnels and will be 20 Km long; Norway's longest railway tunnel to date and the longest in the Nordic countries. It will be protected by DIREX and DURTOX toxic gas detectors, manufactured by DURÁN ELECTRÓNICA, and by anemometers and temperature & humidity sensors distributed by DURÁN ELECTRÓNICA.

PARQUES DEL RIO MEDELLIN, COLOMBIA.

Opacimeters, Sondeltox CO, Ultrasonic Anemometers, Luminancimeters. **May 2016.**

Parques del río Medellín is an integral project of urban transformation that will bring together the city of Medellín through both margins of its river. This project contemplates in its design the improvement of infrastructures, landscaping and vegetation, with the purpose of creating a metropolitan mobility corridor and an important place of encounter for the city's citizens.

CRESCO UNDERGROUND TUNNEL, CARTAGENA, COLOMBIA.

Opacimeters, Sondeltox CO. **June 2015.**

The Crespo tunnel is the final feature of the double road from Barranquilla to Cartagena through the coastal route. The tunnel has a length of 600 meters, on a road of 2.5 kilometers.

GAMBETTA TUNNEL, LIMA, PERÚ.

Opacimeters, Anemometers, Sondeltox CO & NO₂. **May 2015.**

The Gambetta tunnel is an underground road located in Lima, Perú, whose itinerary passes in its entirety under the future second runway of the Jorge Chávez International Airport, activating traffic from North to South and vice versa.



DEVOYU TUNNEL, NALÓN VALLEY, ASTURIAS.

DURTOX CO, Opacimeters, Propeller Anemometers and Cup and Vane Anemometers. December 2022.

In compliance with Royal Decree 635, the Devoyu tunnel on the AS-117 road in Valle del Nalón has been adapted, with Opacimeters, propeller anemometers and cup and vane anemometers, distributed by Durán Electrónica and DURTOX 4-20mA detectors for CO control designed and manufactured by Durán Electrónica.

NORTH ROAD JUNCTION TUNNELS M-30, MADRID

June 2022. DURTOX CO and NO₂, Opacimeters, Compact Weather Stations and Propeller and Cup and Vane Anemometers.

From Paseo de la Castellana in the direction of Colmenar-Tres Cantos (M-607) and towards the M-30 south, Madrid City Council proceeds with the remodeling of this northern node, supporting the Environmental Sustainability Strategy. It eliminates the traffic congestion of 67,800 vehicles per day, eliminates intersections, saves time for private vehicles and benefits air quality by reducing 14 tons of CO₂ per day.

TETUÁN TUNNEL, SANTANDER

February 2022. DURTOX CO and NO₂, Propeller Anemometer, Opacimeter and linear temperature detection by thermocouple.

The old tunnel from the 19th century, also called the La Caña tunnel, was originally a railway tunnel. It communicates the neighborhoods of Tetuán and El Sardinero. With 290 meters in length, a width of 3.5 meters and a height between 3.25 and 3.6 meters, it is being remodeled to join it with the Sardinero and Puertochico bike lanes as well as to adapt it to the R.D. 635.

POBLENOU, PLA DE PALAU AND COLOM TUNNELS, BARCELONA

January 2022. Propeller anemometers and Luxometers.

These three tunnels are located on the coastal ring road known as La Ronda Litoral and also called B-10, being the high capacity road belt of the city of Barcelona. For a better adaptation to the road conditions, both LED and environmental lighting and in accordance with Royal Decree 635, the tunnels have been equipped with propeller anemometers and lux meters, distributed by Durán Electrónica.

LEPANTO TUNNEL, VIGO.

Propeller anemometers, cup and vane anemometers, opacimeters and DURTOX CO and DURTOX NO₂ detectors. December 2021.

With more than 100 meters, this underpass connects Lepanto street, in the center of Vigo, with the highway, as well as a second tunnel that gives entry to vehicles from the AP-9 to the Vialia center and passing under the new Urzaiz station. With the creation of this tunnel, the overpass over Alfonso XIII is definitely eliminated.

YÉBENES TUNNEL, TOLEDO.

Vane anemometers, DURTOX CO and NO₂ detectors. November 2021.

After a road safety study, the tunnel of Yébenes locality on the CN-401 has been subjected to the adaptation of its facilities. It has a two-way tube, supporting a daily traffic of 5,553 vehicles of which 11% are heavy vehicles. In adapting this infrastructure, vane anemometers distributed by Durán Electrónica and DURTOX detectors for CO and NO₂ designed and manufactured by Durán Electrónica have been installed.

M50 PERALES DEL RÍO TUNNEL.

Opacimeters, Vane Anemometers, DURTOX CO and DURTOX NO₂. November 2021.

Located at PK 39 + 650 of the M-50 in Madrid, the Perales del Río tunnel is 690 meters long and has two independent tubes in each direction of traffic. Each has four lanes of 3.5 meters wide. To adapt it to the requirements established according to directive 204/54 / CE and RD 635/2006, it has been equipped with opacimeters, helix anemometers distributed by Durán Electrónica and DURTOX detectors for CO and DURTOX for NO₂ designed and manufactured by Durán Electrónica.

EXPANSION VSM (SOUTH METROPOLITAN VARIANT), BILBAO.

Ultrasonic anemometers, DURTOX CO and DURTOX NO₂. November 2021.

The VSM Variante Sur Metropolitana de Bilbao or also called "Supersur" facilitates the entry and exit of goods by truck from the port of Bilbao. It supports a daily traffic of 4,460 trucks. It has the latest advances in digitization and security, improving energy efficiency with 3,993 LED lamps. Ultrasonic anemometers distributed by Durán Electrónica and DURTOX CO and DURTOX NO₂ detectors designed and manufactured by Durán Electrónica have been installed in the infrastructure.



XERESA TUNNEL, GANDÍA, VALENCIA.

DURTOX CO & NO₂, opacimeters, anemometers, meteorological stations and linear temperature detection. **May 2021.**

This tunnel with two tubes of approximately 450m each is located on the AP-7 Valencia – Alicante motorway between the terms of Xeresa and Gandía. It has all the security systems such as variable message panels, cameras, access barriers, lighting systems, traffic lights, ventilation, etc. To comply with Royal Decree 635, it has provided opacimeters, anemometers, meteorological stations and linear temperature detection, distributed by Duran Electrónica, as well as DURTOX detectors for CO and NO₂ control.

BAILÉN TUNNEL, MADRID

DURGAS CO and NO₂, opacimeters, anemometers, weather station and vane anemometers. **July 2021.**

Great reform of the Plaza de España and 38 more adjoining streets, as well as the Tunnel to join Ferraz with Bailén. All with an approximate budget of 97 million euros in an area of approx. 90,000m².

MALLORCA TUNNELS. MONNÀBER TUNNEL AND GROG BLAU TUNNEL.

Opacimeters & CO DURTOX. **October 2020.**

This route of five tunnels up to 200 meters long, extends between the Torrente d'Almedra and the Cúber reservoir. The first leads to Finca Solleric. For the tunnels Monnàber and Grog Blau, opacimeters distributed by Durán Electrónica, and DURTOX detectors for CO detection, designed and manufactured by Durán Electrónica, have been chosen.

GIBRALTAR TUNNEL, GIBRALTAR.

Opacimeters, cup and vane anemometers and DURGAS System with CO and NO₂ EURODETECTORS. **October 2020.**

The new access to Gibraltar Rock Airport is a 35.7 million euro project with a 1.24 km track. This infrastructure includes the construction of a 350-meter tunnel. The highway will surround Gibraltar Airport including the tunnel under the airport runway head. In addition, the tunnel will have another parallel for the transit of cyclists and pedestrians.

JOSE MARIA SOLER TUNNEL, MADRID.

DURGAS & Opacimeters. **September 2019.**

For its conservation and improvement the tunnel ventilation system is updated by changing the old detection system for our DURGAS system designed and manufactured by DURÁN ELECTRÓNICA. A SENTRY opacimeter, distributed by DURAN ELECTRONICA, has also been installed.

SAN JUÁN DE AZNALFARACHE TUNNEL, SEVILLA.

Opacimeters. **July 2019.**

San Juan de Aznalfarache, located on the banks of Guadalquivir River, near Seville. In order to fulfill current legislation regarding to safety in road tunnels, Opacimeters distributed by DURAN Electronica have been installed.

UNDERPASS IN VALENCIA HARBOUR, VALENCIA.

Opacimeters, Anemometers, CO & NO₂ detectors. **July 2019.**

Valencia Port Authority, public agency entrusted of the management of this key infrastructure in the Spanish Foreign Trade Transport, has refurbished the underpass. New CO & NO₂ detectors, opacimeters, and interior and exterior vane anemometer has ben installed. All manufactured or distributed by DURAN Electronica.

EIRIS TUNNEL, LA CORUÑA.

Opacimeters, vane anemometers DURTOX CO & NO₂. **September 2018.**

The Eiris tunnel connects in just 3 minutes Matogrande and Os Castros. The objective is to reduce the traffic coming from the port through the Ramón y Cajal Street. It will allow 30,000 vehicles to circulate each day.

SAN LORENTZO -LARRE TUNNEL. GUIPUZCOA.

Opacimeters, ultrasonic anemometers. **September 2018.**

The Gipuzkoa provincial government has approved the project to adapt the San Lorentzo-Larre tunnel, on the A-15 towards Pamplona, with a tender budget of 5,780,814 euros and a period of implementation of 4 months. The project will improve the users safety and the tunnel devices, according to the European regulations.

PIQUERAS TUNNEL, SORIA AND LA RIOJA.

Opacimeters, ultrasonic anemometers. **September 2018.**

The Piqueras Tunnel, in the municipality of La Póveda in Soria, and Lumbreras in La Rioja, is located between kilometers 261 and 264 of the N-111. It has a length of 2,444 m, and a construction investment of more than 75 million euros.

MONREPOS TUNNELS, HUESCA.

Opacimeters, SONDELTOX CO&NO₂, HDL cable, and vane anemometers.
July 2018.

The Monrepós Tunnels include the sections: Tunnel 3 or Arguís, Tunnel 8 or Caldearenas-Lanave and Tunnel 7 (Caldearenas) Alto de Monrepós-Caldearenas. The detection of toxic gases is carried out with the SONDELTOX CO and NO₂ detectors manufactured by Durán Electrónica. The air control for Lanave and Alto de Monrepós is carried out with the installation of Opacimeters and Anemometers distributed by Durán Electrónica. Linear temperature detection for the Arguis tunnel with Fibrolaser[®] distributed by Durán Electrónica.

EMILIO MINE, LOROÑE, COLUNGA, ASTURIAS.

SONDELTOX CO, NO, NO₂, Humidity&temperature sensors, cup&vane anemometers.
May 2018.

Mina Emilio is one of the main suppliers of spatofluor in Spain. For its environmental control and detection of toxic gases, it has relied on the installation of Propeller Anemometer, Programmed Bipolar Universal Converter, Temperature and Humidity Sensor and SONDELTOX CO, NO and NO₂ Detectors, distributed and manufactured by Durán Electrónica.

BOUZAS TUNNEL, VIGO.

Opacimeters, SONDELTOX CO and vane anemometers. **December 2017.**

In accordance with Royal Decree 635 for the updating of security in the road tunnels of the country, the substitution and updating of opacimeters, SONDELTOX CO detectors and vane anemometers has been carried out.

TUNNELS IN THE AUTOPISTA DEL SOL HIGHWAY, MÁLAGA-ESTEPONA

Durttox CO 4-20mA, opacimeters, vane anemometers, cup and vane anemometers and weather stations. **November 2017.**

Adaptation to R.D. 635/2006 decree of 26th May of the following tunnels: Montemayor, La Quinta, Rio Verde, Santa Maria I, Calahonda and Nagüeles in the Málaga-Estepona section.

URETAMENDI AND ZALDÍVAR TUNNELS, ERMUA, GUIPÚZCOA.

DURTOX CO and NO₂, ultrasonic and cup and vane anemometers, luxmeters.
July 2017.

AGUAS VIVAS TUNNELS, GUADALAJARA.

DURTOX CO and NO₂, opacimeters, vane and cup and vane anemometers, linear heat detection cable. **July 2017.**

SERVICE ROAD TUNNEL. TENERIFE.

Fibrolaser[®] III, Luminancimeters. **November 2016.**

With a total length of 463 meters, it starts at the same point than the Via Litoral tunnel to lead into the rear of the Puerto-Ciudad de Santa Cruz de Tenerife building. Fire detection materials, Luminance meters and Fibrolaser III have been supplied.



LA ALDEA TUNNEL, GRAN CANARIA

DURTOX CO, NO₂, Anemometers, Fibrolaser® III, Opacimeters, Luminancimeters.
October 2016.

The Village Tunnel is 3,145 m and is the longest in the Canary Islands. For the gas and fire detection systems of this state-of-the-art tunnel, products manufactured and distributed by DURÁN ELECTRÓNICA have been chosen.

CERRADO DE CALDERÓN TUNNEL. MÁLAGA.

SONDELTOX CO, NO₂, Fibrolaser® III October 2016.

It is formed by two one-way tubes with 750m length. During its remodeling, the gas detection system and linear temperature detection have been replaced by equipment manufactured and/or distributed by DURÁN ELECTRÓNICA.

BELABIETA & SAN LORENZO TUNNELS. GUIPÚZCOA.

SONDELTOX NO, Anemometers & Opacimeters. July 2016.

Located in the A-15, they include a double tube with two lanes and one-way traffic. They have a length of more than 2,5 km. For the updating of the ventilation system of this tunnel CO detectors manufactured by DURÁN ELECTRÓNICA have been selected, as well as anemometers and opacimeters distributed by DURÁN.

MEDIA FANEGA TUNNEL. SEVILLA.

SONDELTOX CO, Anemometers & Opacimeters February 2016.

TUNNEL OF ATOCHA-MAYOR-PZA. MAYOR. MADRID.

DURGAS CO y NO₂, Anemómetros (hélice, ultrasonidos y cazoleta y veleta).
January 2016.

For the renovation of the ventilation system of this tunnel, the new DURGAS system, designed and manufactured by DURÁN ELECTRÓNICA, has been used, as well as the propeller, ultrasound and bowl and weather vane anemometers distributed by DURÁN ELECTRÓNICA.

TUNNEL OF PLANETARIO AVENUE. MADRID.

DURGAS CO & NO₂, Anemometers. January 2016.

TUNNEL OF ALBERTO AGUILERA. MADRID.

DURGAS CO & NO₂, Anemometers. January 2016.

TUNNEL OF ALFONSO XIII-CORAZON DE MARIA. MADRID.

DURGAS CO & NO₂, Anemometers. January 2016.

TUNNEL OF PRINCESA-STA. CRUZ DE MARCENADO. MADRID.

DURGAS CO & NO₂, Anemometers. January 2016.

TUNNEL OF CASTELLANA (PZA. CASTILLA). MADRID.

DURGAS CO & NO₂, Anemometers. January 2016.

TÚNEL DE ALBERTO ALCOCER (PZA. REPUBLICA DOMINICANA). MADRID.

DURGAS CO & NO₂, Anemometers. January 2016.

TÚNEL DE FCO. SILVELA - DR. ESQUERDO. MADRID.

DURGAS CO & NO₂, Anemometers. January 2016.

TÚNEL DE JOAQUIN COSTA (PZA. REPUBLICA ARGENTINA). MADRID.

DURGAS CO & NO₂, Anemometers. January 2016.

TÚNEL DE PZA. DE CONDE CASAL. MADRID.

DURGAS CO & NO₂, Anemometers. **January 2016.**

TÚNEL DE BAILEN (PZA. DE ORIENTE). MADRID.

DURGAS CO & NO₂, Anemometers. **January 2016.**

TÚNEL DE RONDA DE ATOCHA-PASEO INFANTA ISABEL. MADRID.

DURGAS CO & NO₂, Anemometers. **January 2016.**

TÚNEL DE RONDA DE TOLEDO-RONDA DE SEGOVIA. MADRID.

DURGAS CO & NO₂, Anemometers. **January 2016.**

GEREDIAGA TUNNELS. VIZCAYA.

SONDELTOX CO, NO₂, Anemometers & Luxometers. **October 2015.**

The Gerediaga-Elorrio section begins at the connection with the AP-8 motorway at the height of Gerediaga, in the municipality of Abadiño. It runs to the west of Elorrio, where, through a new link, it connects with the BI-632, giving continuity to the Elorrio Variant. It has a total length of 6.44 km, with separate two-lane roads along its entire route.

TUNNEL AT IBERICA DE SALES. REMOLINOS. ZARAGOZA.

SONDELTOX CO, O₂, Anemometers and T+H. **October 2015.**

Ibérica de Sales, established in 1932, works mostly in the extraction and commercialization of rock salt, Salt from salt lakes and brine. To control the ventilation system in its vehicle access tunnel, they have put their trust in systems manufactured and/or distributed by Durán Electrónica.

EL ROMERAL TUNNEL, GRANADA.

Sondeltox CO, Anemometers and Fire Detection. **August 2015.**

The highway stretch of the Mediterranean highway this tunnel is part of, with 10,2 Km in length, connects to the west with the El Puntalón-Carchuna section, and to the East with the Castell de Ferro-Popolos section. Works include building a link called Castell de Ferro link, as well as the construction of El Romeral tunnel and four viaducts.

This tunnel is protected by CO detectors designed and manufactured by DURÁN ELECTRÓNICA and by fire detectors and anemometers distributed by DURÁN ELECTRÓNICA.

TUNNELS OF MARIA PITA, LA CORUÑA.

Sondeltox CO, NO₂, Anemometers and Opacimeters. **February 2015.**

TUNNELS OF LA DESKARGA, GUIPUZCOA.

Sondeltox CO and Ultrasonic Anemometers. **January 2015.**



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OTERO DE SANABRIA TUNNELS, ZAMORA.

Opacimeters, temperature and humidity sensors, CO, NO₂, O₂ & CO₂ detection. **January 2019.**

The high-speed tunnels located in Otero de Sanabria belongs to the municipality of Palacios de Sanabria in the province of Zamora. This high-speed line belongs to the section between Zamora and Pedralba de la Pradería, close to the A-52 motorway. With this planned investment of 252 million, Zamora will be 10 minutes closer to Madrid and 55 minutes closer to Galicia.

SOL RAILWAY TUNEL, MADRID.

DURGAS and CO & NO₂ EURODETECTORS. **October 2018.**

The Atocha-Chamartín railway tunnels are in Madrid. With south-north orientation, they connect the Atocha-Cercanías station (south-head) with Chamartín station (northern head), the most important in the capital in terms of passenger numbers. The connection currently consists of two tunnels in service with two railways each and a third under construction for the AVE (high speed train) which pass through the Recoletos station. The second tunnel in service is located to the west of the first one, passing through Sol, and the high-speed tunnel is located to the east. For this second tunnel, the existing suction equipment has been replaced for DURGAS system with CO and NO₂ EURODETECTORS, manufactured and distributed by Durán Electrónica.

SERRA GROSSA TUNNEL, ALICANTE.

CO & NO₂ Eurodetectors, Opacimeters, Ultrasonic Anemometers, HDL cable **April 2017.**

Railway tunnel of 1.4 kilometers in length excavated under the mountain range and that is part of the so-called variant of the Serra Grossa with entrance to the tunnel by the street Obispo Victorio Oliver of Alicante.

AVE PAJARES HIGH SPEED TUNNEL, ASTURIAS.

Weather Stations **April 2016.**

AVE TUNNEL VALLADOLID-VENTA DE BAÑOS, VALLADOLID.

CO & O₂ Sondeltox, Opacimeters, T+H Sensors **August 2015.**

VIGO-DAS MACEIRAS TUNNEL, PONTEVEDRA.

CO & NO₂ Sondeltox, Opacimeters, Ultrasonic Anemometers **January 2015.**

200 Km UTILITY TUNNELS, MADRID.

DURGAS CO, O₂, H₂S & Explosive gases. **January 2023.**

The Madrid City Council has been placing its trust in DURÁN ELECTRÓNICA products since 2001 to protect the city's underground galleries. An initial 100km stretch equipped with EUROSONDELCO power plants and CO, H₂S, O₂ and explosive gas detectors have been joined by extensions of another 50km in 2011 and new stretches up to 200km today. The EUROSONDELCO plants have been replaced by the DURGAS plants, of a more recent design.

LOS BERROCALES UTILITY TUNNELS, MADRID

DURGAS, DURTOX O₂, H₂S, DURTEX and CO EURODETECTORS. **April 2022.**

The large urban project of Los Berrocales in the southeast of Madrid houses more than 22,000 homes, an industrial park, offices and landscaped green areas in a space of some 8 million m². To protect its Service Galleries, the DURGAS system has been chosen, designed and manufactured by Durán Electrónica, S.L.

SERVICE GALLERY LAS DELICIAS STATION, ZARAGOZA

DURGAS & DURTOX-X CO. **September 2021.**

The Zaragoza-Delicias railway station was inaugurated on May 7, 2003. It is also known simply as Delicias, being the fifth station in Spain by number of long-distance travelers. The station also houses the Zaragoza Bus Station, giving the possibility of combining different modes of transport. Its rail services offer the AVE, ALVIA and TALGO trains for long distance and MD, TRD, Regional and express trains for medium distance. The C-1 commuter line is also part of the station. To protect this service gallery, the DURGAS System has been installed with DURTOX-X detectors for CO, designed and manufactured by Durán Electrónica.

ASERVICE TUNNELS, MALAGA AIRPORT.

EURODETECTORS O₂ & DURTEX HC PRO. **June 2019.**

SERVICE TUNNELS, ALICANTE AIRPORT.

DURGAS, CO DETECTION, O₂, Explosive Gases & H₂S. **December 2018.**

The airport of Alicante-Elche, known as El Altet airport, is located 8 km to the south-west of Alicante. It is located in the municipality of Elche, between the districts of El Altet and Torrellano. It occupies the fortieth position in the European airport network according to number of passengers. In addition, it represents the airport with the highest passenger traffic in the Valencian Community. In its service gallery, the DURGAS system has with INTEGRA II Integration modules have been installed, designed and manufactured by Durán Electrónica.

SERVICE TUNNELS SEVILLE AIRPORT.

SIEDEGAS, CO & O₂ EURODETECTORS CO & DURTEX HC PRO. **November 2018.**

Sevilla airport, also known as Sevilla- San Pablo airport, is 3 km northeast from the city. It is located between the city limits of Sevilla and La Rinconada. It has an airstrip 3,360 m long by 45 m wide, 42 check-in desks and 16 boarding gates which gave access to five telescopic runways. The SIEDEGAS system has been installed in the service gallery with CO and O₂ EURODETECTORS and DURTEX HC PRO detectors for explosive gases.

SERVICE TUNNELS, IBIZA, SPAIN

STANDGAS HC, STANDGAS PRO LCD NO₂ & O₂. **July 2018.**

Ibiza airport is the main communication artery for Ibiza and Formentera. To handle the high demand of passengers and traffic, an expansion and adaptation of the terminal and installations. The service tunnels that connect the various buildings have been equipped with detectors manufactured by Durán Electrónica.

UTILITY TUNNELS AT GSW (Global Steel Wire) SANTANDER, CANTABRIA.

DURGAS CO & O₂. **September 2015.**

Global Steel Wire S.A. is a company in the CELSA Group that specializes in the manufacture of wire rods, with an extensive range of steels and dimensions. Its service gallery has been protected with the Durgas system manufactured by Durán Electrónica.

TUNNELS

ARIYADH OLD AIRPORT TUNNEL, SAUDI ARABIA.
3 TUNNELS. BRAGA. PORTUGAL
D'ENVALIRA TUNNEL. ANDORRA
DURANGO-MAZATLAN TUNNELS, MEXICO.
EUROSCUP TUNNEL - PORTUGAL
HIDROSOGAMOSO TUNNEL. COLOMBIA.
MOTORWAY TUNNELS ATHENS-TESALONICA. GREECE
NUEVA NECAXA-AVILA CAMACHO TUNNEL. MEXICO
ORTEGA Y GASSET TUNNEL, DOMINICAN REPUBLIC.
SUMAPAZ TUNNEL, COLOMBIA
TREMIE DAKAR. TUNNELS. CASABLANCA. MOROCCO
TUNNEL IN ZAQUIAT, MOROCCO

UTILITY TUNNELS

VIDIN BRIDGE UTILITY TUNNELS, VIDIN. BULGARIA.



DURAN
electrónica



FS02425



ROAD TUNNELS

A8 HIGHWAY MALMASIN. VIZCAYA
 ABLANEDA TUNNEL, ASTURIAS.
 ALCANTARA. MÁLAGA
 ALFONSO XIII TUNNEL. MELILLA
 ALTET TUNNEL, ALICANTE.
 ALTO DE SOMOSIERRA TUNNEL, MADRID.
 AMISALAIETA. NAVARRA
 ÁNGEL GUIMERÁ. VALENCIA
 ARGUISAO TUNNEL, GUIPUZCOA.
 ATOCHA-CHAMARTIN RAILWAY TUNNEL. MADRID
 AZCA COMPLEX TUNNELS. MADRID
 BARRANCO DE LA BATALLA TUNNEL, ALICANTE.
 BARRIO COVADONGA. SANTANDER
 BASATAUNDI. NAVARRA
 BIELSA-ARAGNOUET TUNNEL, SPAIN-FRANCE.
 BILBAO ACCESS TUNNELS THROUGH SAN MAMES, VIZCAYA
 BIMENES I. ASTURIAS
 BIMENES II. ASTURIAS.
 BOTIN CENTER UNDERPASS, SANTANDER.
 BOUZAS. GALICIA
 BRACONS TUNNEL. GIRONA
 C.C TALAVERA TUNNEL. TOLEDO
 C.R.I. ASTURIAS
 CALDERÓN STADIUM. MADRID
 CAPISTRANO. MÁLAGA
 CARCHUNA & FUENTECILLA. GRANADA
 CARTAGENA-ESCOMBRERAS. MURCIA
 CARTAGENA-VERA. ALMERIA
 CEREIXAL. BECERREÁ. LUGO
 CERROGORDO. MÁLAGA
 CERROSOL AND EL PINO. MÁLAGA
 CHURRIANA TUNNEL - MÁLAGA.
 COLLADOS. GIRONA
 CONDADO DE TREVIÑO. ÁLAVA
 CONDE DE CASAL SQUARE. MADRID
 CONSTITUCIÓN AVENUE UNDERPASS. CASTELLÓN
 CORNES - O'HÓRREO TUNNEL, SANTIAGO DE COMPOSTELA.
 COSTA RICA. MADRID DONCOS. LUGO
 DE LA VEGA. TENERIFE
 DONCOS. LUGO
 EIBAR. VITORIA
 EL BICHO TUNNEL, TENERIFE.
 EL BRUC TUNNEL, BARCELONA.
 EL REGUERAL TUNNEL, ASTURIAS.
 EL SERRALLO. GRANADA
 ENDARLATSA. GUIPUZCOA
 FOLGOSO. VIGO - MADRID HIGHWAY
 FONISTO
 FONTFREDA TUNNEL, GIRONA.
 FRESNO. SEGOVIA
 FUENTEBUENA. BURGOS
 GRANOLLERS. BARCELONA
 HÓRREO TUNNEL, SANTIAGO DE COMPOSTELA.
 JARRIO. ASTURIAS
 JOANET TUNNEL, GIRONA.
 LA CANDA. A CORUÑA
 LA CAÑIZA. PONTEVEDRA
 LA CERDERA TUNNEL. LERIDA
 LA HERRADURA. GRANADA
 LA MARGA TUNNEL, LA ALBERICIA. SANTANDER.
 LAGO. MÁLAGA
 LA MINILLA. GRANADA
 LES FOSSES TUNNEL, GIRONA.
 LLEIDA STATION. LLEIDA
 LOS NOGALES. PALENCIA
 LOS OMEYAS. CÓRDOBA
 LOS YEBENES. TOLEDO
 LUKO. VITORIA
 M111. BARAJAS AIRPORT. MADRID
 M-50 FALSE TUNNEL. MADRID
 MADROÑO. MÁLAGA
 MALAGA - GUADIARO HIGHWAY
 MALMASIN & ARTXANDA. VIZVAYA.
 MAMARIAGA. VIZCAYA



MEDIA FANEGA. SEVILLA
MEDITERRANEAN HIGHWAY TUNNELS
MENÉNDEZ PIDAL. VALENCIA
METROPOLITAN TURNOFF. BILBAO
MIRAVETE TUNNELS PRIAÑES
MIRAVETE. CACERES
MONREPÓS 1. HUESCA
MONREPÓS 2. HUESCA
MONT-ROS. GIRONA
MONTGRÓS TUNNEL - BARCELONA.
MORATA TUNNEL, ZARAGOZA.
MORCILLA TUNNEL. SANTANDER BAY
MUROS DE NALON TUNNELS, ASTURIAS.
NAGÜELES. MÁLAGA
NEW CAR PARKS IN SERRANO STREET, MADRID.
NUEVO CENTRO. VALENCIA
OLANDIXO. GUIPUZCOA
OLLERÍA. XÁTIVA. VALENCIA
PADORNELO. A CORUÑA
PADURA. ÁLAVA
PAIS VASCO HIGHWAY
PASAIA TURNOFF. GUIPÚZCOA
PEDRALBA TUNNEL, ARAGÓN.
PEÑAFLOR. ASTURIAS
PERDÓN. PAMPLONA
PESGET ALEXANDRE AVENUE. VALENCIA
PIEDRAFITA TUNNEL EXPANSION
PIEDRAFITA. LEÓN
PIEDRAS BLANCAS TUNNEL, CANTABRIA.
PILES-INFAZÓN SECTION. ASTURIAS
PIO XII TUNNEL, MADRID.
PIO XII, MADRID
PIQUERAS. LOGROÑO
PIQUERAS. SORIA
POLOPOS TUNNELS, GRANADA
PORT OF VALENCIA. VALENCIA
PRIAÑES
PUERTO DE VIGO ACCESS. PONTEVEDRA
PUERTO RICO-MOGAN TUNNELS, GRAN CANARIA.
PUIG-REIG / BERGA. BARCELONA
R4 WITH M50 INTERSECTION. MADRID
RAÑADOIRO TUNNEL. ASTURIAS
REAL MADRID TRAINING CENTER DISTRIBUTOR. MADRID
RIAÑO TUNNEL, ASTURIAS
RÍAS ALTAS TUNNEL.
RONDA ESTE FALSE TUNNEL. ZARAGOZA
SALER. VALENCIA
SAN ESTEVE D'EN BAS. LA VALL D'EN BAS. GIRONA
SAN PEDRO DE ALCÁNTARA TUNNEL, MÁLAGA.
SAN PEDRO. LUGO
SANTA MARIA UNDERPASS. MADRID
SE40 HIGHWAY. SEVILLA
SECOND BELTWAY. SAN SEBASTIAN
SODUPE. VIZCAYA
TRABADELO. LEÓN
TREVIÑO, BURGOS
TUNNEL FOR CARGO. ELCHE
TUNNEL UNDER MALAGA AIRPORT LINK
TUNNEL OF URDINBIDE, GUIPUZCOA.
TUNNELS OF GAINZABALA, GUIPUZCOA.
VALLADARES TUNNEL EXPANSION. VIGO
VENTA DE LA MORCILLA TUNNEL, CANTABRIA.
VENTISQUERO DE LA CONDESA. MADRID
VIA LITORAL TUNNEL, TENERIFE
VIC-RIPOLL. GIRONA LOS YEBENES. TOLEDO
VIELHA. LÉRIDA
VILLAFRANCA. LUGO
VILLENIA AND DESPENAPERROS TUNNELS, CIUDAD REAL.
YESA and LIEDANA TUNNELS, NAVARRA.
ZALDIBAR. BIZKAIA
ZALDIVIA. PAÍS VASCO
ZORROAGA. GUIPUZCOA

RAILWAY TUNNELS

AXARQUIA. MÁLAGA
CAN TUNIS TUNNEL. BARCELONA
EIBAR. VITORIA
ESTACIÓN PARQUE TUNNEL - ELCHE.
GURUZTETXIKI, APOTZAGA AND IZURIETA. GUIPÚZCOA
LA CODINA. BARCELONA.
LA PORTADA. LA PALMA
LLEIDA STATION TUNNEL
MÁLAGA AIRPORT ACCESS TUNNEL
PORT OF ALGECIRAS. CÁDIZ
RAILWAY TUNNEL ATOCHA-CHAMARTIN. MADRID
RAILWAY TUNNEL CHAMARTÍN-T4 BARAJAS AIRPORT, MADRID.
RAILWAY TUNNEL ELCHE.ALICANTE

UTILITY TUNNELS

100 KM MADRID CITY UTILITY TUNNELS (INITIAL PHASE)
ALMERIA CENTRAL MARKET UTILITY TUNNELS.
EL TELLER MALL UTILITY TUNNELS, VALENCIA
LA PEINETA. MADRID
MALAGA AIRPORT.
MALAGA SUBWAY
MERCAMADRID COLD STORES. MADRID
PRAT-T2 AIRPORT. BARCELONA
PTS TECHNOLOGICAL CITY. GRANADA
SPORT CITY REAL MADRID
UTILITY TUNNELS OF UNDERGROUND CAR PARKS IN SERRANO STREET, MADRID.
VERY HIGH VOLTAGE TUNNEL. INELFE. LA JONQUERA. GIRONA

