

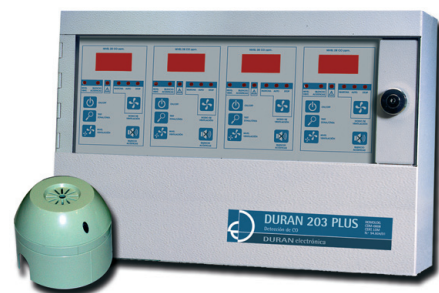


**DURAN 203 PLUS** is a carbon monoxide detection system using semiconductor, made up of a control unit and detectors, which incorporates a **powerful, intuitive and easy handling software**. Its modular structure, from 1 to 4 module lines, allows its adaptation either to small spaces or big areas, controlling up to 56 detectors – 14 per module line – connected by 3-wire leads.

**DURAN 203 PLUS** system holds all the Certifications and Homologations required in a product of the highest quality. Our technicians have developed the necessary improvements so that the system can be easily installed and handled without prior technical knowledge of the system.

**Mini DURAN 203** is the perfect system for small spaces. This is a carbon monoxide microprocessed detection system using semiconductor, and it is made up of one module line that can control up to 4 detectors.

**DURAN 203 PLUS** and **Mini DURAN 203** use **DURAN 203 PLUS** detectors with semiconductor technology and 8 bit microprocessor, which guarantee an exact resolution and a perfect functioning. Consequently, this has provided the system with great acknowledgement and prestige all over Europe.



## MAIN FEATURES

- **Programmable ventilation** in Normal – maximum reading – and Economical – average reading - modes, saving up to 35% in extractor electricity consumption.
- System for **auto-decontamination of detectors** – at lower and medium levels- and automatic start-up afterwards, avoiding the unnecessary expenses of factory repairs and staff intervention.
- **Automated programming** for ventilation and alarm levels once initial levels have been programmed.
- **Optional module** for controlling two speed ventilation per module line. The equipment's programming detects the module and afterwards, it changes the menus and messages. The system also incorporates input and output retards between 1st and 2nd speed thus avoiding breakdowns in the power unit and belts, or the need to install additional timers.
- **Faults discriminator** allowing rapid location of installation and maintenance problems – connection errors, blown fuses, power errors...-.
- **Auto bi-directional test** to verify the state of the installation and detectors.
- It incorporates a **grid filter**, which minimizes inductive and parasite problems and installation breakdowns.
- It incorporates a one-key system to **cancel acoustic signals** when it is necessary, with only one key.
- It incorporates more **optical indicators** in order to facilitate an easier understanding of systems operations.

**EASY INSTALLATION AND HANDLING, THE INSTALLATION TESTS ITSELF.  
IT SAVES UP TO 35% IN EXTRACTOR ELECTRICITY CONSUMPTION**

**DURAN ELECTRONICA CALIBRATES ALL DETECTORS WITH TARGET GAS BY SOPHISTICATED DYNAMIC AND STATIC COMPUTER-MONITORED SYSTEMS**

## MODULE LINE TECHNICAL CHARACTERISTICS

Technology	µP 8 bit semicuston
Power supply	From 8 to 20V DC 15V nominal
Maximum consumption	80 mA
Sampling capacity	14 detectors x 4 module lines =56 detectors
Reading modes	Maximum reading or Average reading
Communication	2 x1,5 mm <sup>2</sup> supply wires +1 TX /RX wire
Ventilation levels	8 programmable levels + 8 -2nd speed linked-
Alarm levels	8 levels linked to ventilation
Status memory	Resident in non volatile E <sup>2</sup> prom -10 years data memory-
Max. distance C.Unit - detectors	250/300 m of 1,5 mm <sup>2</sup> wire
Ventilation output	Up to 2 outputs by 1 x 5A dry contact relay circuit fuseprotected
Alarm output	1 general 5A dry contact relay output fuseprotected
Data presentation	3x7 segments displays + 6 auxiliary information LEDs, incorporated in the polycarbonate 5 control keys
Consumption	25W /230V
Dimensions -mm-	365 x 105 x 260
Weight -gr-	7.200 -4 module lines-

## DURAN 203 PLUS DETECTOR

Technology	Semiconductor and µP 8 bit semicuston
Power supply	From 8 to 20V DC 15V nominal
Standby consumption	10 mA
Decontamination consumption	138 mA
Average resolution	±9 ppm at 20° C and 21% O <sub>2</sub> -minimum 10%-
Measurement range	From 0 to 300 ppm
Response speed	One measurement every 150 seconds
Sensor useful life	5 years -depending on the environment-
Thermal compensation	Automatic, by means of an integrated temperature sensor from <12° C and >30° C
Operational temperature	10° C -35° C and 50% - 80% relative humidity
Height and place of installation	From 1, 50 -2 m high on ceiling or columns
Presentation and dimensions	ABS injected circular box 90 mm Ø and 75 mm height
Influence and interfering gases	10.000 ppm of CO <sub>2</sub> /3.000 ppm of CH <sub>4</sub> /100 ppm of SO <sub>2</sub> or C <sub>6</sub> H <sub>6</sub> /50 ppm of NOX =3% of measurement
Connection	3 parallel wires 1,5 mm <sup>2</sup>

