



GAS DETECTION

NEW PRODUCTS 2017



[SO MANY REALITIES ONE VISION ONLY]



CPF

geca

Tecnocontrol

KNOW-HOW "MADE IN ITALY"

CPF Industriale, Tecnocontrol and Geca: the synergistic union of three cutting-edge Italian companies' technical and manufacturing skills, resulting in a continuous search for new frontiers to explore and new projects to realise.

Our Group, the benchmark in the Italian technological arena, contributes to both the advancement of technology and the style that distinguishes Italy's excellence worldwide.

The group brings together the technical and manufacturing skills of three companies.

Leaders in their respective fields, they work in synergy towards a common goal: achieving the highest quality standards while keeping a keen eye on customer needs, paying utmost attention to manufacturing quality and business management, with heavy investments aimed at product compliance and certification to Italian and European standards.

GIUGIARO

D E S I G N



WHO IS GIUGIARO DESIGN?

After various experiences in the world of design, in 1968 **Giorgio Giugiaro** founded **Italdesign Giugiaro**, which immediately secured relationships with car manufacturers such as Alfa Romeo, Fiat, Hyundai and Mitsubishi.

Soon after, he commenced a partnership with the German automobile manufacturer Volkswagen, for the production of three of what can now be considered the Wolfsburg automotive company's historic cars: Volkswagen Passat, Volkswagen Scirocco and Volkswagen Golf.

Many cars and objects designed by Italdesign have marked the pages of the history of cinema. How can we ever forget the legendary DeLorean in Robert Zemeckis' highly successful trilogy, Back to the Future?

Who could forget the submarine version of 007's Lotus Esprit?

In addition, other prestigious examples of Italdesign's work feature in Airbus A321 aircrafts, Copenhagen's mini-metro, in the production of the C27J Spartan for Alenia Aeronautica and the production of the ETR470 Cisalpino train, just to name a few.

During the course of his work, **Giugiaro** has received many national awards, including the bestowal of the Order of Merit for Labour, an honorary degree and prizes such as the Compasso d'Oro for the Alfa Romeo Brera.

His fame has crossed national borders, in fact he was inducted into the Automotive Hall of Fame in 2002, and in 1999 was awarded the title of Car Designer of the Century, which was conferred in Las Vegas by a jury of 120 journalists and international experts.

On May 25, 2010, Volkswagen AG acquired 90.1% of Italdesign Giugiaro capital, incorporating the company into the German group, and placing it under the control of the Lamborghini holding company, Audi's Italian subsidiary.

On July 2, 2015, **Giorgio Giugiaro** resigned from all the corporate positions he was still covering, thanking his friend Ferdinand Piëch, Chief Executive Officer of the Volkswagen Group.

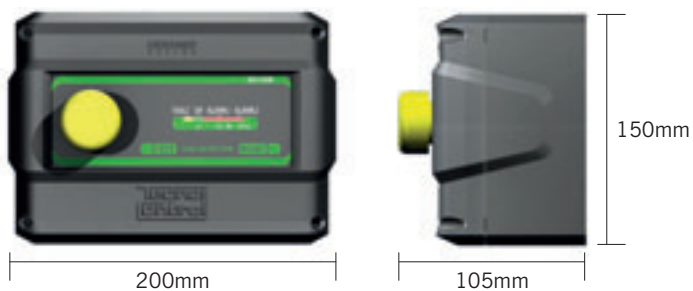
Tecnocontrol e Geca, in renewing its image to reflect the proven reliability and quality of its products, wanted to join the ranks of companies whose success is aligned with that of such a renowned name.

SE126K CTR21



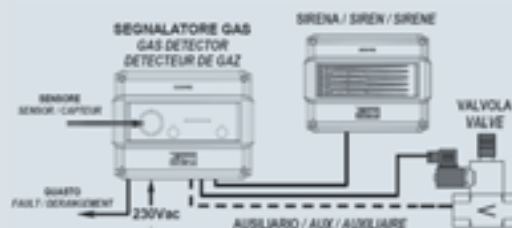
CONTROL UNIT WITH INTEGRATED SENSOR

- Display with LED bar
- N° 3 relay outputs for alarm and fault with alarm memory – Pre configured
- N° 2 AUX inputs for Solenoid valve with CPI control position and Emergency Push Button
- TEST function
- RESET function
- Degree of protection IP44
- Designed According to EN50054-50057



TECHNICAL DATA

CE IP44



Tecnocntr's code: SE126

Geca's code: CTR21

Power supply: 230Vac 50-60Hz 12-24Vcc

Installation: Wall

Absorption: 3,5Va - 1,5W

Alarm level: 10% LEL - 20% LEL

Measuring range: 0÷20% LEL

Sensor: Catalytic

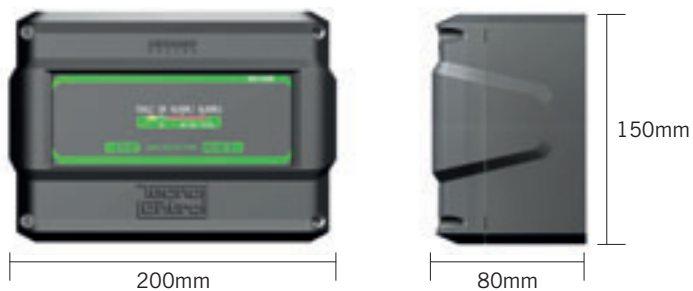
Code	Gas Detected	Installation	Type Sensor	Measuring Range	Alarm Intervention	Power Supply	Electrical Input	Output	Capacity	Calibration Cylinder	Average Time in clean air	Maximum Storage Time
SE126KM CTR21KM	Natural gas	Wall	Catalytic	0÷20% LEL	10% LEL 20% LEL	230Vac (-15/+10%) 50/60Hz	3 VA - 1,5 W	No. 3 Relays 24V/1A SPST	230Vac 3A SPDT	B0006	5 years	5 years
SE126KG CTR21KG	LPG	Wall	Catalytic	0÷20% LEL	10% LEL 20% LEL	12÷24Vac (-15/+10%)	3 VA - 1,5 W			B0006	5 years	5 years

SE128K CTM21



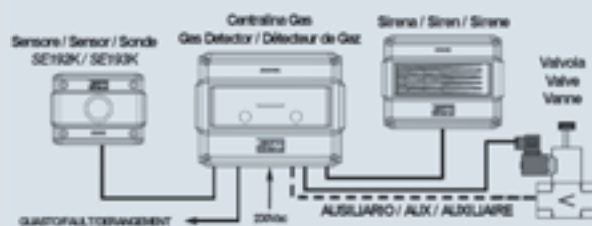
CONTROL UNIT FOR 1 REMOTE SENSOR

- Display with LED bar
- N° 3 relay outputs for alarm and fault with alarm memory – Pre configured
- N° 2 AUX inputs for Solenoid valve with CPI control position and Emergency Push Button
- TEST function
- RESET function
- Degree of protection IP65
- Designed According to EN50054-50057



TECHNICAL DATA

CE IP65



Tecnoccontrol's code: SE128

Geca's code: CTM21

Power supply: 230Vac 50-60Hz 12-24Vcc

Installation: Wall

Absorption: 3,5 VA

Alarm level: 10% LEL - 20% LEL

Measuring range: 0÷20% LEL

Code	Gas Detected	Installation	Suitable for use with sensor type	Measuring Range	Alarm Intervention	Power Supply	Electrical Input	Output	Capacity
SE128K CTM21	Natural Gas LPG	Wall	SE192KM SE192KG SE193KM SE193KG	0÷20% LEL	10% LEL 20% LEL	12 Vac/Vdc 230Vac 50/60Hz (-15/+10%)	4,5 W 3 VA	No. 3 Realsys	230Vac 3A SPDT

SE194K CTP21



CONTROL UNIT FOR 3 REMOTE SENSORS

- Display with LED bar for each sensor
- N° 3 relay outputs for alarm and fault with alarm memory – pre configured
- N° 2 AUX inputs for Solenoid valve with CPI control position and Emergency Push Button
- TEST function
- RESET function
- Degree of protection IP65
- Designed According to EN50054-50057



200mm



150mm

80mm

TECHNICAL DATA

CE IP65



Tecnocontrol's code: SE194

Geca's code: CTP21

Power supply: 110 / 230 Vac 50/60Hz 12 Vdc (-15%+10%)

Installation: Wall

Absorption: 10 Va

Soglia di allarme: 10% LEL - 20% LEL

Measuring range: 0÷20% LEL

Code	Gas Detected	Installation	Suitable for use with sensor type	Measuring Range	Alarm Intervention	Power Supply	Electrical Input	Output	Capacity
SE194K CTP21	Methane LPG	Wall	SE192KM SE192KG SE193KM SE193KG	0÷20% LEL	10% LEL 20% LEL	110 / 230Vac 50/60Hz 12Vdc (-15/+10%)	8 VA 4,5 W	No. 3 Relays 230V 3A SPDT	230Vac 3A SPDT

SE294K CTP24



CONTROL UNIT WITH DISPLAY FOR 3 REMOTE SENSORS

- Graphic backlit Display
- 3 inputs for sensors - Natural gas / LPG / Co sensors connected can be mixed between NG - LPG / Co
- N° 3 relay outputs for alarm and fault with alarm memory Alarm levels (relays) programmable via DIP-Switch
- N° 2 AUX inputs for Solenoid valve with CPI control position and Emergency Push Button
- TEST function
- RESET function
- Degree of protection IP65
- Designed According to EN50054-50057



200mm

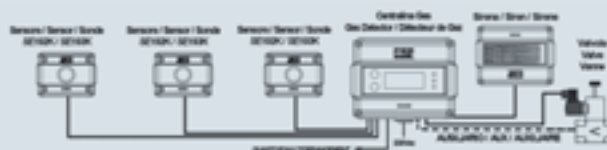


150mm

80mm

TECHNICAL DATA

CE IP65



Tecnocontrol's code: SE294

Geca's code: CTP41

Power supply: 110 / 230 Vac 50/60Hz 12 Vdc (-15%+10%)

Installation: Wall

Absorption: 10 VA

Measuring range: 0 - 20 % LEL - 0 - 300 ppm

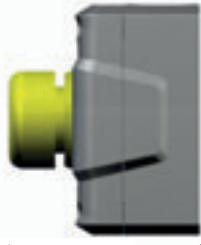
Sensor: Catalytic

Code	Gas Detected	Installation	Suitable for use with Sensor Type	Measuring Range	Power Supply	Electrical Input	Output	Capacity
SE294K CTP24	Natural Gas LPG CO	Wall	SE192KM SE192KG SE193KM SE193KG TS220EC-S	0÷20% LEL 0÷300 ppm	110/230Vac 50/60Hz 24Vdc (-15/+10%)	8 VA 4,5 W	No. 3 Relays 230V 3A SPDT	230Vac 3A SPDT

SE192K ST441



110mm



70mm

80mm



GAS DETECTOR

- Degree of protection IP44
- Powered by the control unit
- Average Sensor life in clean air: 5 years
- Suitable for use with control panels: SE128K - SE194K - SE294

TECHNICAL DATA

CE IP44

Tecnocontrol's code: SE192

Geca's code: ST441

Range: 0 ÷ 20% LEL

Code	Gas Detected	Sensor Type	Measuring Range	Power Supply	Electrical Input	Output	Calibration Cylinder	Average Sensor life in clean air	Maximum Storage Time
SE192KM ST441KM	Methane	Catalytic	0÷20% LEL	12Vdc (-10/+15%)	1 W	4÷20 mA	B0006	5 years	5 years
SE192KG ST441KM	LPG	Catalytic	0÷20% LEL		1 W	4÷20 mA	B0006	5 years	5 years

SE301



200mm



80mm

150mm



SIREN

Piezoelectric modulated siren with flashing red light indication.

CE IP44

Code	Power Supply	Absorption	Sound intensity	Installation	Degree of Protection	Lighting
SE301A	230Vca 12Vdc	9VA - 230Vac 6W - 12Vdc	115 db	Wall	IP44	LED

SE237
TS282



LED STATUS INDICATORS

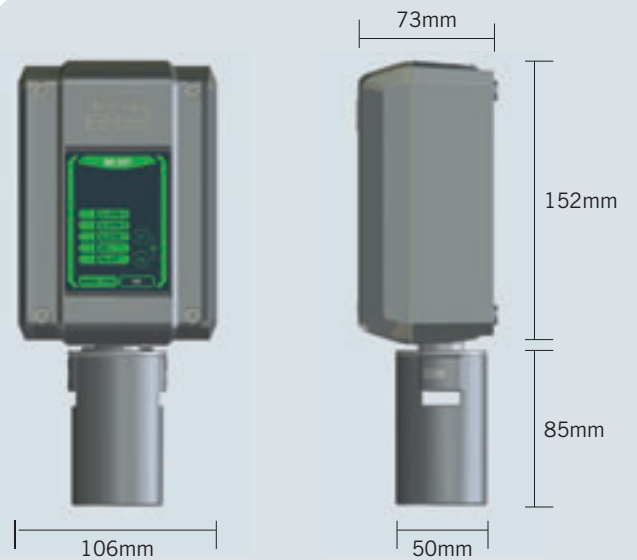
TWO KEYS F1 AND F2 FOR ZERO ADJUSTMENT

EASY CALIBRATION:
CALIBRATION IS EASILY PERFORMED USING THE BUILT-IN KEYPAD

DEGREE OF PROTECTION IP65

AUTOMATIC ZERO DRIFT DURING THE WORKING LIFE

CE IP65





STANDAR PROTECTION IS DESIGNED TO PROTECT THE SENSOR FROM CHANGES IN ENVIRONMENTAL CONDITIONS

- Non-intrusive, one-man operation
- The Gassing Cap is for Gas Response checking during commissioning and routine maintenance

GAS TRANSMITTER DETECTS TOXIC GASES, OXYGEN AND FLAMMABLE GASES

Gas detector with IP65 case in ABS V0 designed by Giugiaro Design.

- Power Supply: 12 ÷ 24Vcc (-10/+15%) - 3W
- Power supply for stand alone detector are: 12 ÷ 24Vcc or 110/230 Vac
- Code with relay outputs and 4-20 mA:
SE237K - SE237E - SE237SF
- Code with only 4-20 mA output:
TS282K - TS282P - TS282E - TS282I - TS282SF

Code	Model	Sensor Type	Average Sensor life in clean air	Maximum Storage Time
SE237	K	Catalytic	5 years	1 year
SE237	E	Electrochemical	2 years	3 months
SE237	SF	Semiconductor	5 years	1 year
TS282	K	Catalytic	5 years	1 year
TS282	P	Pellistor	5 years	1 year
TS282	E	Electrochemical	2 years	3 months
TS282	I	Infrared	5 years	1 year
TS282	SF	Semiconductor	5 years	1 year

MOST COMMON GAS DETECTED

CODE	DESCRIPTION
SE237EA	Stand alone detector IP65 - 3 relay - Electrochemical sensor - NH3
SE237EA-H	Stand alone detector IP65 - 3 relay - Electrochemical sensor - NH3 High performance
SE237EC-H	Stand alone detector IP65 - 3 relay - Electrochemical sensor - CO High performance
SE237ECL	Stand alone detector IP65 - 3 relay - Electrochemical sensor - CL
SE237EC-S	Stand alone detector IP65 - 3 relay - Electrochemical sensor - CO
SE237EH	Stand alone detector IP65 - 3 relay - Electrochemical sensor - H2S
SE237EHCL	Stand alone detector IP65 - 3 relay - Electrochemical sensor - HCL
SE237EHCN	Stand alone detector IP65 - 3 relay - Electrochemical sensor - HCN
SE237EN	Stand alone detector IP65 - 3 relay - Electrochemical sensor - NO
SE237EN2	Stand alone detector IP65 - 3 relay - Electrochemical sensor - NO2
SE237EO	Stand alone detector IP65 - 3 relay - Electrochemical sensor - O2
SE237ES	Stand alone detector IP65 - 3 relay - Electrochemical sensor - SO2
SE237KB	Stand alone detector IP65 - 3 relay - Catalytic sensor - Fuel
SE237KG	Stand alone detector IP65 - 3 relay - Catalytic sensor - Gpl
SE237KI	Stand alone detector IP65 - 3 relay - Catalytic sensor - H2
SE237KM	Stand alone detector IP65 - 3 relay - Catalytic sensor - CH4
SE237PB	Stand alone detector IP65 - 3 relay - Pellistor sensor - fuel
SE237PG	Stand alone detector IP65 - 3 relay - Pellistor sensor - Gpl
SE237PI	Stand alone detector IP65 - 3 relay - Pellistor sensor - H2
SE237PM	Stand alone detector IP65 - 3 relay - Pellistor sensor - CH4
SE237PX	Stand alone detector IP65 - 3 relay - Pellistor sensor - calibration on request
SE237SF1	Stand alone detector IP65 - 3 relay - Semiconductor sensor Range 0÷2.000 ppm - R134a
SE237SF2	Stand alone detector IP65 - 3 relay - Semiconductor sensor Range 0÷2.000 ppm - R404a
SE237SF3	Stand alone detector IP65 - 3 relay - Semiconductor sensor Range 0÷2.000 ppm - R407c
SE237SF4	Stand alone detector IP65 - 3 relay - Semiconductor sensor Range 0÷2.000 ppm - R410a
SE237SF5	Stand alone detector IP65 - 3 relay - Semiconductor sensor Range 0÷2.000 ppm - R507
SE237SF1-H	Stand alone detector IP65 - 3 relay - Semiconductor sensor Range 0÷1.000 ppm - R134a
SE237SF2-H	Stand alone detector IP65 - 3 relay - Semiconductor sensor Range 0÷1.000 ppm - R404a
SE237SF3-H	Stand alone detector IP65 - 3 relay - Semiconductor sensor Range 0÷1.000 ppm - R407c
SE237SF4-H	Stand alone detector IP65 - 3 relay - Semiconductor sensor Range 0÷1.000 ppm - R410a
SE237SF5-H	Stand alone detector IP65 - 3 relay - Semiconductor sensor Range 0÷1.000 ppm - R507
TS282EA	Transmitter 4-20mA Electrochemical sensor IP65 NH3
TS282EA-H	Transmitter 4-20mA Electrochemical sensor IP65 NH3 - High performance
TS282EC-H	Transmitter 4-20mA Electrochemical sensor IP65 CO - High Performance
TS282ECL	Transmitter 4-20mA Electrochemical sensor IP65 CL
TS282EC-S	Transmitter 4-20mA Electrochemical sensor IP65 CO
TS282EH	Transmitter 4-20mA Electrochemical sensor IP65 H2S
TS282EHCL	Transmitter 4-20mA Electrochemical sensor IP65 r HCl
TS282EHCN	Transmitter 4-20mA Electrochemical sensor IP65 HCN
TS282EN	Transmitter 4-20mA Electrochemical sensor IP65 NO
TS282EN2	Transmitter 4-20mA Electrochemical sensor IP65 r NO2
TS282EO	Transmitter 4-20mA Electrochemical sensor IP65 O2
TS282ES	Transmitter 4-20mA Electrochemical sensor IP65 SO2
TS282IC2	Transmitter 4-20mA Infrared sensor IP65 CO2 - 5% Vol.
TS282IC2-H	Transmitter 4-20mA Infrared sensor IP65 CO2 - 5.000 ppm
TS282SF1	Transmitter 4-20mA Semiconductor sensor - Range 0÷2.000 ppm - R134a
TS282SF2	Transmitter 4-20mA Semiconductor sensor - Range 0÷2.000 ppm - R404a
TS282SF3	Transmitter 4-20mA Semiconductor sensor - Range 0÷2.000 ppm - R407c
TS282SF4	Transmitter 4-20mA Semiconductor sensor - Range 0÷2.000 ppm - R410a
TS282SF5	Transmitter 4-20mA Semiconductor sensor - Range 0÷2.000 ppm - R507
TS282SF1-H	Transmitter 4-20mA Semiconductor sensor - Range 0÷1.000 ppm - R134a
TS282SF2-H	Transmitter 4-20mA Semiconductor sensor - Range 0÷1.000 ppm - R404a
TS282SF3-H	Transmitter 4-20mA Semiconductor sensor - Range 0÷1.000 ppm - R407c
TS282SF4-H	Transmitter 4-20mA Semiconductor sensor - Range 0÷1.000 ppm - R410a
TS282SF5-H	Transmitter 4-20mA Semiconductor sensor - Range 0÷1.000 ppm - R507
TS282KB	Transmitter 4-20mA Catalytic sensor catalitico IP65 fuel
TS282KG	Transmitter 4-20mA Catalytic sensor catalitico IP65 Gpl
TS282KI	Transmitter 4-20mA Catalytic sensor catalitico IP65 H2
TS282KM	Transmitter 4-20mA Catalytic sensor catalitico IP65 CH4
TS282PB	Transmitter 4-20mA Pellisto sensor IP65 Fuel
TS282PG	Transmitter 4-20mA Pellisto sensor IP65 per Gpl
TS282PI	Transmitter 4-20mA Pellisto sensor IP65 per H2
TS282PM	Transmitter 4-20mA Pellisto sensor IP65 per CH4
TS282PX	Transmitter 4-20mA Pellisto sensor IP65 calibration for Flammable gases on request

CE408 CE424



LARGE GRAPHIC DISPLAY
WITH ALL CHANNELS
SHOWN AT A GLANCE

USER FRIENDLY AND INTUITIVE
DEDICATED KEYS MAKE ALL
FUNCTIONS ACCESSIBLE FROM
THE FRONT PANEL

VERSIONS FOR
4-8-16-24-32 **SENSORS**

DESIGN BY
GIUGIARO

PRECONFIGURED
SENSORS

13 PLUGS FOR CABLING GLANDS ON
THE BASE OF THE HOUSING

EXPANDABLE CHANNELS
USING PLUG-IN BOARDS

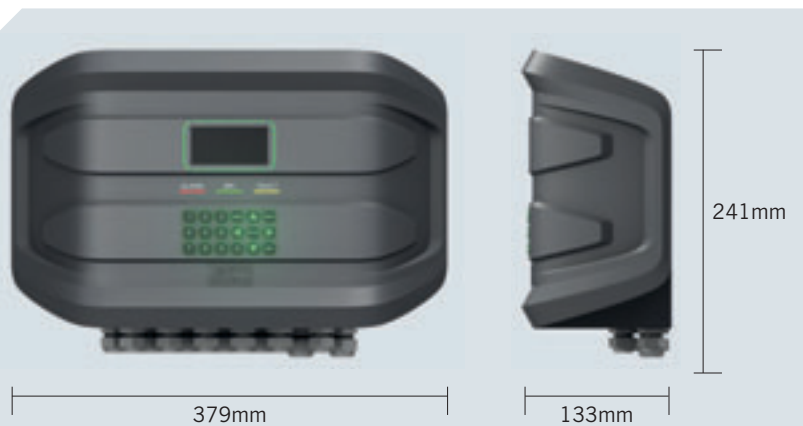
CE424 - CE532

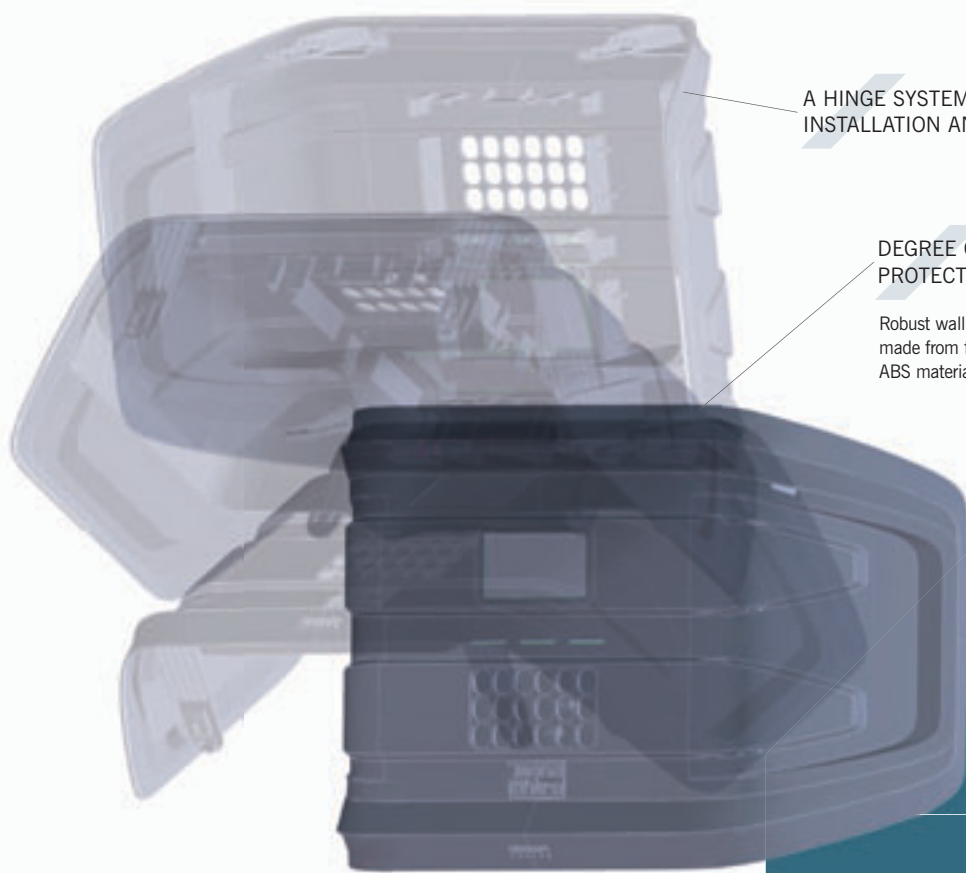


CE408 - CE516



CE IP65





A HINGE SYSTEM FOR A EASY INSTALLATION AND MAINTANANCE

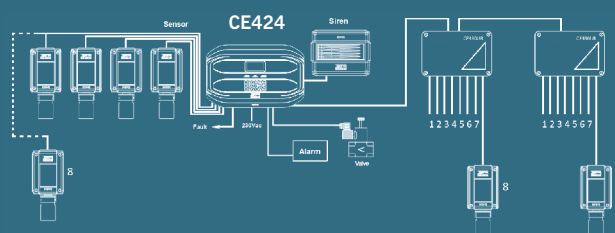
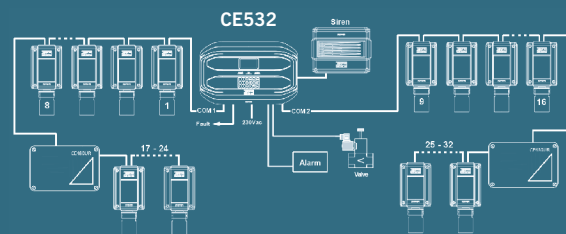
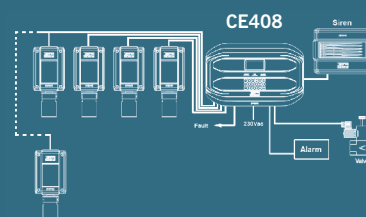
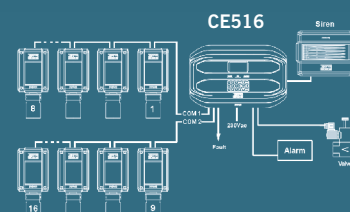
DEGREE OF PROTECTION IP65

Robust wall mounted housing made from fire retardant ABS material grade

CONTROLLER FOR MONITORING TOXIC, OXYGEN AND FLAMMABLE GASES IN INDUSTRIAL PLANTS

- Compatible to all sensors series "SE" and "TS" with output 4-20mA and RS485 only for CE516 /532
- RS485 to connect max. n° 2 CE380UR remote units
- Easy setup with pre-configured list of pre-programmed detectors
- Configuration protected by a password (3 safety levels)
- AND, OR and PARKING (EN50545-1) logical operation usable in zones
- "RESET" function
- Last events visualized on the display (100)
- Operation/Working visualization with backlighting display
- Check inputs/outputs boards presence
- SD Card for:
 - Firmware updating
 - Data logger
 - Programming backup
- N° 2 batteries of 12V 1,3 Ah can be setting

TECHNICAL DATA



Code	Product Type	Installation	Connectable Sensors	Measuring Range	Power Supply	Output	Capacity
CE408P	Control Unit	Wall	Serie "TS" and "SE" (max 8 with expansion)	Programmable	110/230 Vac (-15% + 10%)	n° 5 Relè (max 9 with ES414)	3A(1A) SPDT 230Vac
CE516P	Control Unit	Wall	Serie "TS" and "SE" (max 16)	Programmable	110/230 Vac (-15% + 10%)	n° 5 Relè (max 17 with expansion card)	3A(1A) SPDT 230Vac
CE424P	Control Unit	Wall	Serie "TS" and "SE" (max 24 with 2 CE380UR)	Programmable	110/230 Vac (-15% + 10%)	n° 5 Relè (max 25 with expansion card)	3A(1A) SPDT 230Vac
CE532P	Control Unit	Wall	Serie "TS" and "SE" (max 32 with 2 CE480UR)	Programmable	110/230 Vac (-15% + 10%)	n° 5 Relè (max 33 with expansion card)	3A(1A) SPDT 230Vac

RELATED GAS PRODUCTS



EXPLOSION PROOF GAS DETECTOR



EXPLOSION PROOF GAS DETECTOR WITH DISPLAY



CALIBRATION GAS CYLINDER



ACCESSORIES



SHUT OFF SOLENOID VALVES



AUTOMATIC SOLENOID VALVES



GAS REGULATORS



GAS FILTERS



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