

Nuova serie Rilevatori Gas Industriali

New series of Industrial Gas Detectors



Lo speciale portasensore di cui è dotato ha anche funzione di cappuccio di calibrazione, a cui si può montare in modo stabile il tubo di trasporto del gas certificato, così da poter effettuare le operazioni di manutenzione senza bisogno di raggiungere il sensore a particolari altezze o se installato in posizione scomoda.

The special sensor's case is equipped with a calibration cap, to which the certified gas transport tube can be mounted, so that maintenance can be carried out without the need to reach the sensor at particular heights or if it is installed in an uncomfortable position.



SPIE DI STATO LED
LED STATUS INDICATORS

RECUPERO AUTOMATICO DELLA DERIVA DURANTE TUTTO IL PERIODO DI FUNZIONAMENTO
AUTOMATIC ZERO DRIFT DURING THE WORKING LIFE

PULSANTI F1 ED F2
PER ESEGUIRE LO ZERO
TWO KEYS F1 AND F2
FOR ZERO ADJUSTMENT

CALIBRAZIONE SEMPLIFICATA: LA CALIBRAZIONE È AUTOMATICA TRAMITE I PULSANTI F1 ED F2
EASY CALIBRATION: CALIBRATION IS EASILY PERFORMED USING THE BUILT-IN KEYPAD

GRADO DI PROTEZIONE: IP65
DEGREE OF PROTECTION IP65

UGELLO DI SOMMINISTRAZIONE GAS DA REMOTO

- Evita l'uso del kit di calibrazione
- Evita di dover raggiungere il sensore in quota

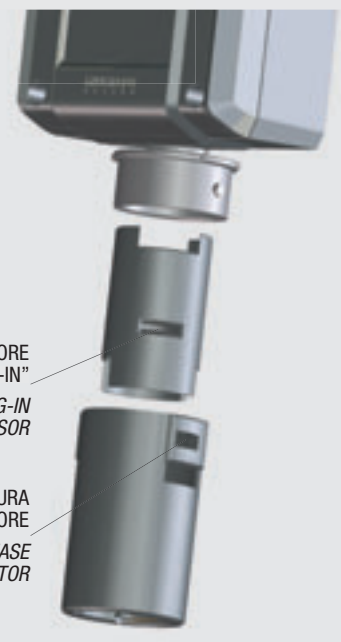
STANDARD PROTECTION IS DESIGNED TO PROTECT THE SENSOR FROM CHANGES IN ENVIRONMENTAL CONDITIONS

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



CARTUCCIA SENSORE A MONTAGGIO "PLUG-IN"
PLUG-IN REPLACEMENT SENSOR

RAPIDA APERTURA DEL PORTASENORE
QUICK-RELEASE CONNECTOR



Manuale cartucce*Cartridge manual***Caratteristiche tecniche***Technical specifications*

Dimensioni / Size Ø 39 x 64 mm

Cartuccia Sensore Sostituibile	Replaceable Cartridge Sensor	
Temp./umidità (non condensata) di immagazzinamento <i>Storage Temp-Humidity (non condensed)</i>	Sensori Catalitici <i>Catalytic Sensors</i>	-20÷+ 55°C / 5÷95 % RH
	Sensori Elettrochimici <i>Electrochemical sensors</i>	0÷+ 20°C / 5÷95 % RH
Tempo massimo di immagazzinamento <i>Max Storage Time</i>	Sensori Catalitici <i>Catalytic Sensors</i>	1 anno / year
	Sensori Elettrochimici <i>Electrochemical sensors</i>	informazione su richiesta <i>information on demand</i>

Etichetta di Collaudo Rilevatore*Detector Test label***Etichetta di Collaudo Cartuccia***Cartridge Test label*

Kit taratura sensori

Calibration kit



TC011 Per sensori industriali.

Kit di calibrazione per sensori di gas industriali, comprende il cappuccio di taratura comprensivo di flussometro per il riscontro di flusso.

TC011 For industrial sensors

Calibration kit for industrial gas sensor equipped of a calibration mask and a flow meter that allows the proper flow rate.

TC014

Kit di calibrazione per sensori di gas industriali, comprende il cappuccio di taratura comprensivo di flussometro per il riscontro di flusso. Costruito in acciaio INOX, indispensabile per l'uso di gas reattivi o altamente reattivi.

TC014

Calibration kit for Industrial gas sensor equipped of a calibration mask and a flow meter that allows the proper flow rate. Built in stainless steel, which is essential for the use of reactive gases or highly reactive.



Bombole gas

Gas bottles

Bombole monouso gas di taratura

Indispensabili per la taratura dei sensori di gas, le bombole monouso sono disponibili per una gran varietà di miscele e con diverse dimensioni secondo il numero di sensori da calibrare.

Disposable sample gas bottles

Useful for gas sensor calibration, the disposable sample gas bottles are available for a big variety of mixture and with different dimensions according to the number of sensors to calibrate.

Codice Code	Gas Gases	Miscela Mixture	Dimensioni I Dimensions I	Pressione bar Pressure bar	Volume utile Volume	Valvola Valve
BO200	CH ₄ - Metano - Methane	0,88% vol. in aria	2	30	60	compresa/included
BO205	CH ₄ - Metano - Methane	0,44% vol. in aria	2	30	60	compresa/included
BO210	CO - Monossido di carbonio - Carbon monoxide	300 ppm in N ₂	2	30	60	compresa/included
BO403	CO ₂ - Anidride carbonica - Carbon dioxide	1% vol. in N ₂	1	12	12	BO311
BO404	CO ₂ - Anidride carbonica - Carbon dioxide	5.000 ppm in N ₂	1	12	12	BO311
BO405	CO ₂ - Anidride carbonica - Carbon dioxide	5% vol. in N ₂	1	12	12	BO311
BO416	O ₂ - Ossigeno - Oxygen	15% vol. in N ₂	1	12	12	BO311
BO417	O ₂ - Ossigeno - Oxygen	20,9% vol. in N ₂	1	12	12	BO311
BO418	SO ₂ - Anidride solforosa - Sulfur dioxide	10 ppm in N ₂	1	12	12	BO311
BO420	H ₂ S - Idrogeno solforato - Hydrogen sulphide	50 ppm in N ₂	1	12	12	BO311
BO453	CO ₂ - Anidride carbonica - Carbon dioxide	1% vol. in N ₂	1	34	34	BO303
BO454	CO ₂ - Anidride carbonica - Carbon dioxide	5.000 ppm in N ₂	1	34	34	BO303
BO455	CO ₂ - Anidride carbonica - Carbon dioxide	5% vol. in N ₂	1	34	34	BO303

Codice Code	Gas Gases	Miscela Mixture	Dimensioni l Dimensions l	Pressione bar Pressure bar	Volume utile Volume	Valvola Valve
B0466	O ₂ - Ossigeno - <i>Oxygen</i>	15% vol. in N ₂	1	34	34	B0303
B0467	O ₂ - Ossigeno - <i>Oxygen</i>	20,9% vol. in N ₂	1	34	34	B0303
B0468	SO ₂ - Anidride solforosa - <i>Sulfur dioxide</i>	10 ppm in N ₂	1	34	34	B0303
B0470	H ₂ S - Idrogeno solforato - <i>Hydrogen sulphide</i>	50 ppm in N ₂	1	34	34	B0303
B0472	NO - Monossido di azoto - <i>Nitrogen monoxide</i>	100 ppm in N ₂	1	34	34	B0302
B0477	HCl - Acido cloridrico - <i>Hydrogen chloride</i>	10 ppm in N ₂	1	34	34	B0305
B0479	HCN - Acido cianidrico - <i>Hydrogen cyanide</i>	10 ppm in N ₂	1	34	34	B0305
B0501	NH ₃ - Ammoniaca - <i>Ammonia</i>	100 ppm in N ₂	1,72	34	34	B0303
B0503	CO ₂ - Anidride carbonica - <i>Carbon dioxide</i>	1% vol. in N ₂	1,72	34	58	B0303
B0504	CO ₂ - Anidride carbonica - <i>Carbon dioxide</i>	5.000 ppm in N ₂	1,72	34	58	B0303
B0505	CO ₂ - Anidride carbonica - <i>Carbon dioxide</i>	5% vol. in N ₂	1,72	34	58	B0303
B0516	O ₂ - Ossigeno - <i>Oxygen</i>	15% vol. in N ₂	1,72	34	58	B0303
B0517	O ₂ - Ossigeno - <i>Oxygen</i>	20,9% vol. in N ₂	1,72	34	58	B0303
B0518	SO ₂ - Anidride solforosa - <i>Sulfur dioxide</i>	10 ppm in N ₂	1,72	34	58	B0303
B0520	H ₂ S - Idrogeno solforato - <i>Hydrogen sulphide</i>	50 ppm in N ₂	1,72	34	58	B0303
B0522	NO - Monossido di azoto - <i>Nitrogen monoxide</i>	100 ppm in N ₂	1,72	34	58	B0302
B0527	HCl - Acido cloridrico - <i>Hydrogen chloride</i>	10 ppm in N ₂	1,72	34	58	B0305
B0529	HCN - Acido cianidrico - <i>Hydrogen cyanide</i>	10 ppm in N ₂	1,72	34	58	B0305
B0552	NH ₃ - Ammoniaca - <i>Ammonia</i>	100 ppm in N ₂	1,72	64	110	B0303
B0553	CO ₂ - Anidride carbonica - <i>Carbon dioxide</i>	1% vol. in N ₂	1,72	64	110	B0303
B0554	CO ₂ - Anidride carbonica - <i>Carbon dioxide</i>	5.000 ppm in N ₂	1,72	64	110	B0303
B0555	CO ₂ - Anidride carbonica - <i>Carbon dioxide</i>	5% vol. in N ₂	1,72	64	110	B0303
B0566	O ₂ - Ossigeno - <i>Oxygen</i>	15% vol. in N ₂	1,72	64	110	B0303
B0567	O ₂ - Ossigeno - <i>Oxygen</i>	20,9% vol. in N ₂	1,72	64	110	B0303
B0568	SO ₂ - Anidride solforosa - <i>Sulfur dioxide</i>	10 ppm in N ₂	1,72	64	110	B0303
B0570	H ₂ S - Idrogeno solforato - <i>Nitrogen sulphide</i>	50 ppm in N ₂	1,72	64	110	B0303
B0572	NO - Monossido di azoto - <i>Nitrogen monoxide</i>	100 ppm in N ₂	1,72	64	110	B0302
B0579	HCN - Acido cianidrico - <i>Hydrogen cyanide</i>	10 ppm in N ₂	1,72	64	110	B0305

Codice Code	Descrizione Description
B0300	Valv. 12.20 per bombola 12 l. - gas inerti <i>Valv. 12.20 for gas bottle 12l - inert gases</i>
B0302	Valv. HPC per bombola 34-58-110 l. - gas inerti e reattivi con manometro flusso fisso 0,5/1/2,5 l/min. <i>Valv. HPC for gas bottle 34-58-110 l - inert and reactive gases with fixed flow manometer 0,5/1/2,5 l/min</i>
B0303	Valv. S-Flow per bombola 34-58-110 l. - gas inerti + H ₂ S - SO ₂ - NH ₃ con flussometro e manometro - flusso variabile 0,25 - 1 l/min <i>Valv. S-flow for gas bottle 34-58-110 l. - inert gases + H₂S - SO₂ - NH₃ with flowmeter and manometer - variable flow 0,25 - 1 l/min</i>
B0304	Valv. Miniflow per bombola 34-58-110 l. - gas inerti + H ₂ S - SO ₂ - NH ₃ con flussometro - flusso regolabile 0,5 - 1,5 l/min <i>Valv. Miniflow for gas bottle 34-58-110 l. - inert gases + H₂S - SO₂ - NH₃ with flowmeter - adjustable flow 0,5 - 1,5 l/min</i>
B0305	Valv. HPC in acciaio INOX per bombola 34-58-110 l. - gas reattivi ed altamente reattivi - con manometro - flusso fisso 0,5/1/2,5 l/min <i>Valv. HPC stainless steel for gas bottle 34-58-110 l - reactive and highly reactive gases with fixed flow manometer - 0,5/1/2,5 l/min</i>
B0310	Valv. S-Flow per bombola 12 l. - gas inerti + H ₂ S - SO ₂ - NH ₃ con flussometro e manometro - flusso regolabile 0,2 - 1 l/min <i>Valv. S-flow for gas bottle 12l - inert gases + H₂S - SO₂ - NH₃ with flowmeter and manometer - adjustable flow 0,2 - 1 l/min</i>
B0311	Valv. Miniflow per bombola 12 l. - gas inerti + H ₂ S - SO ₂ - NH ₃ con flussometro - flusso regolabile 0,5 - 1,5 l/min <i>Valv. miniflow for gas bottle 12l - inert gases + H₂S - SO₂ - NH₃ with flowmeter - adjustable flow 0,5 - 1,5 l/min</i>

Altre miscele ed altre dimensioni di bombola, a richiesta - On request, other gas mixtures and gas cylinder dimension

Sensori e cartucce

Sensors and cartridge sensors

Rilevatori con Uscita a Relé per Gas Infiammabili con Sensore Catalitico e Scala 0÷20%LIE.

Flammable Gas Detector with output relay, with a catalytic sensor with 20%LIE F.S. of detected gas.

Codice Code	Gas rilevato Gas detected	Custodia Protection level	Cartuccia Cartridge
SE237KM	Metano - Methane	IP65	ZSK01/IP – ZSK02/IP
SE237KG	Butano / Propano - Butane / Propane	IP65	ZSK01/IP – ZSK02/IP
SE237KI	Idrogeno - Hydrogen	IP65	ZSK01/IP – ZSK02/IP
SE237KB	Benzina - Petrol	IP65	ZSKB/IP
SE138KM	Metano - Methane	Ex "d" ATEX	ZSK02/EX
SE138KG	Butano / Propano - Butane / Propane	Ex "d" ATEX	ZSK02/EX
SE138KI	Idrogeno - Hydrogen	Ex "d" ATEX	ZSK02/EX
SE138KB	Benzina - Petrol	Ex "d" ATEX	ZSK04/EX

Rilevatori con Uscita a Relé per Gas Infiammabili con Sensore Catalitico Pellistor e Scala 0÷100%LIE.

Flammable Gas Detector with output relay, with a catalytic Pellistor sensor with 100%LIE F.S. of detected gas.

Codice Code	Gas rilevato Gas detected	Custodia Protection level	Cartuccia Cartridge
SE237PM	Metano - Methane	IP65	ZSP/IP
SE237PG	Butano / Propano - Butane / Propane	IP65	ZSP/IP
SE237PI	Idrogeno - Hydrogen	IP65	ZSP/IP
SE237PB	Benzina - Petrol	IP65	ZSP/IP
SE237PX	Gas vari - Various gas	IP65	ZSP/IP
SE138PM	Metano - Methane	Ex "d" ATEX	ZSP05/EX
SE138PG	Butano / Propano - Butane / Propane	Ex "d" ATEX	ZSP05/EX
SE138PI	Idrogeno - Hydrogen	Ex "d" ATEX	ZSP05/EX
SE138PB	Benzina - Petrol	Ex "d" ATEX	ZSP05/EX
SE138PX	Gas vari - Various gas	Ex "d" ATEX	ZSP05/EX
SE138PE	Acetilene - Acetylene	Ex "d" ATEX	ZSP02/EX
SE138PX-H	Gas vari - Various gas	Ex "d" ATEX	ZSP02/EX
SE138PS	Stirene - Styrene	Ex "d" ATEX	ZSP03/EX

Rilevatori con Uscita a Relé per Gas Tossici e Ossigeno con Sensore Elettrochimico.

Toxic and Oxygen Gas Detector with output relay, with an electrochemical sensor.

Codice Code	Gas rilevato Gas detected	Custodia Protection level	Cartuccia Cartridge
SE237EA	Ammoniaca – Ammonia 0÷300ppm	IP65	ZSEA/IP
SE237EA-H	Ammoniaca – Ammonia 0÷300ppm	IP65	ZSEA-H/IP
SE237EC-S	Monossido di carbonio – Carbon monoxide 0÷300ppm	IP65	ZSEC/IP
SE237EC-H	Monossido di carbonio – Carbon monoxide 0÷300ppm	IP65	ZSEC-H/IP
SE237EH	Idrogeno solforato – Hydrogen sulphide 0÷100ppm	IP65	ZSEH/IP
SE237ECL	Cloro – Chlorine 0÷10ppm	IP65	ZSECL/IP
SE237EHCL	Acido cloridrico – Hydrogen chloride 0÷10ppm	IP65	ZSEHCL/IP
SE237EHCN	Acido cianidrico – Hydrogen cyanide 0÷10ppm	IP65	ZSEHCN/IP
SE237EN	Ossido di azoto – Nitrogen monoxide 0÷100ppm	IP65	ZSEN/IP
SE237EN2	Biossido di azoto – Nitrogen dioxide 0÷30ppm	IP65	ZSEN2/IP
SE237EO	Ossigeno – Oxygen 0÷25%	IP65	ZSEO/IP
SE237ES	Anidride solforosa – Sulfur dioxide 0÷20ppm	IP65	ZSES/IP
SE138EA	Ammoniaca – Ammonia 0÷300ppm	Ex "d" ATEX	ZSEA1/EX
SE138EA-H	Ammoniaca – Ammonia 0÷300ppm	Ex "d" ATEX	ZSEA2/EX
SE138EC-S	Monossido di carbonio – Carbon monoxide 0÷300ppm	Ex "d" ATEX	ZSEC1/EX
SE138EC-H	Monossido di carbonio – Carbon monoxide 0÷300ppm	Ex "d" ATEX	ZSEC2/EX
SE138EH	Idrogeno solforato – Hydrogen sulphide 0÷100ppm	Ex "d" ATEX	ZSEH1/EX
SE138EHCN	Acido cianidrico – Hydrogen cyanide 0÷10ppm	Ex "d" ATEX	ZSEHCN/EX
SE138EN	Ossido di azoto – Nitrogen monoxide 0÷100ppm	Ex "d" ATEX	ZSEN1/EX
SE138EN2	Biossido di azoto – Nitrogen dioxide 0÷30ppm	Ex "d" ATEX	ZSEN2/EX
SE138EO	Ossigeno – Oxygen 0÷25%	Ex "d" ATEX	ZSE01/EX
SE138ES	Anidride solforosa – Sulfur dioxide 0÷20ppm	Ex "d" ATEX	ZSES1/EX

Sensori e cartucce

Sensors and cartridge sensors

Rilevatori con uscita relè e sensore INFRAROSSO.

Gas detector with output relay and INFRARED sensor.

Codice Code	Gas rilevato Gas detected	Custodia Protection level	Cartuccia Cartridge
SE136IC2	Anidride carbonica – Carbon Dioxide 2% Vol.	IP44	NO

Rilevatori con uscita relè e sensore a semiconduttore.

Gas detector with output relay and semiconductor sensor

Codice Code	Gas rilevato Gas detected	Custodia Protection level	Cartuccia Cartridge
SE237SF1	Freon R134a 0÷2.000 ppm	IP65	ZSSF1/IP
SE237SF2	Freon R404a 0÷2.000 ppm	IP65	ZSSF2/IP
SE237SF3	Freon R407c 0÷2.000 ppm	IP65	ZSSF3/IP
SE237SF4	Freon R410a 0÷2.000 ppm	IP65	ZSSF4/IP
SE237SF5	Freon R507 0÷2.000 ppm	IP65	ZSSF5/IP
SE237SF1-H	Freon R134a 0÷1.000 ppm	IP65	ZSSF1-H/IP
SE237SF2-H	Freon R404a 0÷1.000 ppm	IP65	ZSSF2-H/IP
SE237SF3-H	Freon R407c 0÷1.000 ppm	IP65	ZSSF3-H/IP
SE237SF4-H	Freon R410a 0÷1.000 ppm	IP65	ZSSF4-H/IP
SE237SF5-H	Freon R507 0÷1.000 ppm	IP65	ZSSF5-H/IP

Trasmettitori 4÷20mA per Gas Infiammabili con Sensore Catalitico e Scala 0÷20%LIE.

Flammable Gas Detector with 4÷20mA output, with a catalytic sensor with 20%LIE F.S. of detected gas.

Codice Code	Gas rilevato Gas detected	Custodia Protection level	Cartuccia Cartridge
TS282KM	Metano - Methane	IP65	ZSK01/IP – ZSK02/IP
TS282KG	Butano / Propano - Butane / Propane	IP65	ZSK01/IP – ZSK02/IP
TS282KI	Idrogeno - Hydrogen	IP65	ZSK01/IP – ZSK02/IP
TS282KB	Benzina - Petrol	IP65	ZSKB/IP
TS293KM	Metano - Methane	Ex "d" ATEX	XSK01/EX – ZSK02/EX
TS293KG	Butano / Propano - Butane / Propane	Ex "d" ATEX	XSK01/EX – ZSK02/EX
TS293KI	Idrogeno - Hydrogen	Ex "d" ATEX	XSK01/EX – ZSK02/EX
TS293KB	Benzina - Petrol	Ex "d" ATEX	ZSK04/EX

Trasmettitori 4÷20mA per Gas Infiammabili con Sensore Catalitico Pellistor e Scala 0÷100%LIE.

Flammable Gas Detector with 4÷20mA output, with a catalytic Pellistor sensor with 100%LIE F.S. of detected gas.

Codice Code	Gas rilevato Gas detected	Custodia Protection level	Cartuccia Cartridge
TS282PM	Metano - Methane	IP65	ZSP/IP
TS282PG	Butano / Propano - Butane / Propane	IP65	ZSP/IP
TS282PI	Idrogeno - Hydrogen	IP65	ZSP/IP
TS282PB	Benzina - Petrol	IP65	ZSP/IP
TS282PX	Gas vari - Various gas	IP65	ZSP/IP
TS293PM	Metano - Methane	Ex "d" ATEX	ZSP05/EX
TS293PG	Butano / Propano - Butane / Propane	Ex "d" ATEX	ZSP05/EX
TS293PI	Idrogeno - Hydrogen	Ex "d" ATEX	ZSP05/EX
TS293PB	Benzina - Petrol	Ex "d" ATEX	ZSP05/EX
TS293PX	Gas vari - Various gas	Ex "d" ATEX	ZSP05/EX
TS293PE	Acetilene - Acetylene	Ex "d" ATEX	ZSP02/EX
TS293PX-H	Gas vari - Various gas	Ex "d" ATEX	ZSP02/EX
TS293PS	Stirene - Styrene	Ex "d" ATEX	ZSP03/EX
TS593PX-H	Infiammabili a richiesta - Flammables on demand	Ex "d" ATEX	ZSP02/EX

Sensori e cartucce

Sensors and cartridge sensors

Trasmettitore 4÷20 mA con sensore INFRAROSSO.

Gas detector with 4÷20 mA output and INFRARED sensor.

Codice Code	Gas rilevato Gas detected	Custodia Protection level	Cartuccia Cartridge
TS210IC2	Anidride carbonica – Carbon Dioxide 2% Vol.	IP44	NO
TS210IF1	Freon R134a 0÷2.000 ppm	IP42	NO
TS210IF2	Freon R404a 0÷2.000 ppm	IP42	NO
TS210IF3	Freon R407c 0÷2.000 ppm	IP42	NO
TS210IF4	Freon R410a 0÷2.000 ppm	IP42	NO
TS210IF5	Freon R507 0÷2.000 ppm	IP42	NO
TS210IF6	Freon R22 0÷2.000 ppm	IP42	NO
TS210IF7	Freon R123 0÷2.000 ppm	IP42	NO
TS210IF8	Freon R125 0÷2.000 ppm	IP42	NO
TS210IF9	Freon R407a 0÷2.000 ppm	IP42	NO
TS210IF10	Freon R1234yf 0÷2.000 ppm	IP42	NO
TS210IF1-H	Freon R134a 0÷1.000 ppm	IP42	NO
TS210IF2-H	Freon R404a 0÷1.000 ppm	IP42	NO
TS210IF3-H	Freon R407c 0÷1.000 ppm	IP42	NO
TS210IF4-H	Freon R410a 0÷1.000 ppm	IP42	NO
TS210IF5-H	Freon R507 0÷1.000 ppm	IP42	NO
TS210IF6-H	Freon R22 0÷1.000 ppm	IP42	NO
TS210IF7-H	Freon R123 0÷1.000 ppm	IP42	NO
TS210IF8-H	Freon R125 0÷1.000 ppm	IP42	NO
TS210IF9-H	Freon R407a 0÷1.000 ppm	IP42	NO
TS210IF10-H	Freon R1234yf 0÷1.000 ppm	IP42	NO
TS282IC2	Anidride carbonica – Carbon dioxide 0÷5% v/v	IP65	ZSIC2/IP
TS282IC2-H	Anidride carbonica – Carbon dioxide 0÷5.000ppm	IP65	ZSIC2-H/IP
TS293IC2	Anidride carbonica – Carbon dioxide 0÷5% v/v	Ex "d" ATEX	ZSIC01/EX
TS293IC2-H	Anidride carbonica – Carbon dioxide 0÷5.000ppm	Ex "d" ATEX	ZSIC02/EX
TS293IE	Acetilene – Acetylene 0÷100% LEL	Ex "d" ATEX	ZSIE01/EX
TS293IG	Butano – Butane 0÷100% LEL	Ex "d" ATEX	ZSIG01/EX
TS293IM	Metano – Methane 0÷100% LEL	Ex "d" ATEX	ZSIM01/EX
TS293IX	Infiammabili a richiesta - <i>Inflammabili a richiesta</i> 0÷100% Vol.	Ex "d" ATEX	ZSIX01/EX
TS593IC2	Anidride carbonica - Carbon dioxide 0÷5% Vol.	Ex "d" ATEX	ZSIC01/EX
TS593IC2-H	Anidride carbonica - Carbon dioxide 0÷5.000 ppm	Ex "d" ATEX	ZSIC02/EX
TS593IE	Acetilene - Acetylene 0÷100% Vol.	Ex "d" ATEX	ZSIE01/EX
TS593IG	Butano - Butane 0÷100% Vol.	Ex "d" ATEX	ZSIG01/EX
TS593IM	Metano - Methane 0÷100% Vol.	Ex "d" ATEX	ZSIM01/EX
TS593IX	Infiammabili a richiesta - <i>Flammables on demand</i> 0÷100% Vol.	Ex "d" ATEX	ZSIX01/EX

Sensori e cartucce

Sensors and cartridge sensors

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TS282EA	Ammoniaca – Ammonia 0÷300ppm	IP65	ZSEA/IP
TS282EA-H	Ammoniaca – Ammonia 0÷300ppm	IP65	ZSEA-H/IP
TS282EC-S	Monossido di carbonio – Carbon monoxide 0÷300ppm	IP65	ZSEC/IP
TS282EC-H	Monossido di carbonio – Carbon monoxide 0÷300ppm	IP65	ZSEC-H/IP
TS282EH	Idrogeno solforato – Hydrogen sulphide 0÷100ppm	IP65	ZSEH/IP
TS282ECL	Cloro – Chlorine 0÷10ppm	IP65	ZSECL/IP
TS282EHCL	Acido cloridrico – Hydrogen chloride 0÷10ppm	IP65	ZSEHCL/IP
TS282EHCN	Acido cianidrico – Hydrogen cyanide 0÷10ppm	IP65	ZSEHCN/IP
TS282EN	Ossido di azoto – Nitrogen monoxide 0÷100ppm	IP65	ZSEHCL/IP
TS282EN2	Biossido di azoto – Nitrogen dioxide 0÷30ppm	IP65	ZSEN2/IP
TS282E0	Ossigeno – Oxygen 0÷25%	IP65	ZSE0/IP
TS282ES	Anidride solforosa – Sulfur dioxide 0÷20ppm	IP65	ZSES/IP
TS293EA	Ammoniaca – Ammonia 0÷300ppm	Ex "d" ATEX	ZSEA1/EX
TS293EA-H	Ammoniaca – Ammonia 0÷300ppm	Ex "d" ATEX	ZSEA2/EX
TS293EC-S	Monossido di carbonio – Carbon monoxide 0÷300ppm	Ex "d" ATEX	ZSEC1/EX
TS293EC-H	Monossido di carbonio – Carbon monoxide 0÷300ppm	Ex "d" ATEX	ZSEC2/EX
TS293EH	Idrogeno solforato – Hydrogen sulphide 0÷100ppm	Ex "d" ATEX	ZSEH1/EX
TS293EHCN	Acido cianidrico – Hydrogen cyanide 0÷10ppm	Ex "d" ATEX	ZSEHCN/EX
TS293EN	Ossido di azoto – Nitrogen monoxide 0÷100ppm	Ex "d" ATEX	ZSEN1/EX
TS293EN2	Biossido di azoto – Nitrogen dioxide 0÷30ppm	Ex "d" ATEX	ZSEN2/EX
TS293E0	Ossigeno – Oxygen 0÷25%	Ex "d" ATEX	ZSE01/EX
TS293ES	Anidride solforosa – Sulfur dioxide 0÷20ppm	Ex "d" ATEX	ZSES1/EX
TS593E0	Ossigeno - Oxygen 0÷25% Vol.	Ex "d" ATEX	ZSE01/EX

Trasmettitori 4-20mA con sensore a semiconduttore.

Gas detector with 4÷20 mA with semiconductor sensor

Codice Code	Gas rilevato Gas detected	Custodia Protection level	Cartuccia Cartridge
TS282SF1	Freon R134a 0÷2.000 ppm	IP65	ZSSF1/IP
TS282SF2	Freon R404a 0÷2.000 ppm	IP65	ZSSF2/IP
TS282SF3	Freon R407c 0÷2.000 ppm	IP65	ZSSF3/IP
TS282SF4	Freon R410a 0÷2.000 ppm	IP65	ZSSF4/IP
TS282SF4	Freon R507 0÷2.000 ppm	IP65	ZSSF5/IP
TS282SF1-H	Freon R134a 0÷1.000 ppm	IP65	ZSSF1-H/IP
TS282SF2-H	Freon R404a 0÷1.000 ppm	IP65	ZSSF2-H/IP
TS282SF3-H	Freon R407c 0÷1.000 ppm	IP65	ZSSF3-H/IP
TS282SF4-H	Freon R410a 0÷1.000 ppm	IP65	ZSSF4-H/IP
TS282SF5-H	Freon R507 0÷1.000 ppm	IP65	ZSSF5-H/IP

Tabella 1
Table 1

Modello a Gas Rilevato <i>Model and Detected Gas</i>	K	LIE LEL % v/v	Densità Density Aria/Air = 1
Acetato di etile / <i>Ethyl acetate</i>	1,67	2,20	3,04
Acetone / <i>Acetone</i>	1,67	2,50	2,00
Alcool isopropilico (2-Propanolo) <i>Iso-Propyl Alcohol (IPA)</i>	1,67	2,00	2,10
Ammoniaca / <i>Ammonia</i>	0,77	15,00	0,59
Benzina / <i>Petrol</i>	0,91	1,20	2,80
Butano / <i>Butane</i>	1,43	1,40	2,05
Eptano / <i>Heptane</i>	1,82	1,10	3,46
Esano / <i>Hexane</i>	1,54	1,00	2,97
Etanolo (Alcool etilico) / <i>Ethanol (Ethyl alcohol)</i>	1,43	3,10	1,59

Tabella 2
Table 2

Sensore tarabile per <i>Sensor calibrated for</i>	K	LIE LEL % v/v	Densità Density Aria/Air = 1
1,4-Diossano / <i>1,4-Dioxane</i>	2,21	2,10	3,00
Acetaldeide (Aldeide acetica) / <i>Acetaldehyde</i>	1,57	4,00	1,52
Acetato di butile / <i>Buthyl acetate</i>	2,48	1,30	4,01
Acetato di etile / <i>Ethyl acetate</i>	2,15	2,20	3,04
Acetilene / <i>Acetylene</i>	1,59	2,30	0,90
Acetone / <i>Acetone</i>	1,67	2,50	2,00
Acetonitrile / <i>Acetonitrile</i>	1,96	3,00	1,42
Acido acetico / <i>Acetic acid</i>	3,00	4,00	2,07
Acido butirrico-n / <i>n-Butyric acid</i>	2,14	2,00	3,04
Acido cianidrico / <i>Hydrogen cyanide</i>	1,94	5,40	0,90
Acqua Ragia / <i>White spirit</i>	2,00	0,80	4,60
Alcool butilico terz / <i>tert-Butyl alcohol</i>	1,56	2,40	2,60
Alcool butilico-n / <i>n-butyl alcohol (1-Butanol)</i>	2,20	1,70	2,60
Alcool isobutilico <i>Iso-Buthyl alcohol-2-Methyl-1-Propanol</i>	1,90	2,00	2,55
Alcool isopropilico (2-Propanolo) <i>Iso-Propyl Alcohol (IPA)</i>	0,77	2,00	2,10
Alcool propilico (1-Propanolo) <i>Iso-Propyl alcohol (Propan 1-ol)</i>	1,69	2,20	2,10
Ammoniaca / <i>Ammonia</i>	1,82	15,00	0,59
Anidride acetica / <i>Acetic anhydride</i>	2,52	2,00	3,50
Anilina / <i>Aniline</i>	2,61	1,20	3,20
Benzina (verde) / <i>Petrol (unlead)</i>	2,20	2,80	1,20
Benzolo / <i>Benzene</i>	2,21	1,20	2,70
Butadiene-1,3 / <i>1,3-Butadiene</i>	2,24	1,40	1,87
Butano / <i>Butane</i>	1,92	1,40	2,05
Butene-1 / <i>But-1-ene</i>	1,89	1,60	1,95
Butene-2-trans <i>trans-Butene-2 (trans-But2ene)</i>	1,66	1,80	1,93
Butene-2cis (Butene-2) <i>cis-Butene-2 (cis-But2ene)</i>	1,95	1,60	1,93

Sensore tarabile per <i>Sensor calibrated for</i>	K	LIE LEL % v/v	Densità Density Aria/Air = 1
Etilene / <i>Ethylene</i>	1,18	2,30	0,97
Idrogeno / <i>Hydrogen</i>	1,54	4,00	0,07
Metano / <i>Methane</i>	1,00	4,40	0,55
Metanolo (Alcool metilico) <i>Methanol (Methyl alcohol)</i>	1,00	5,50	1,11
Metiletilchetone (Butanone) / <i>Butanone (MEK)</i>	2,22	1,80	2,48
Ottano / <i>n-Octane</i>	2,00	0,80	3,93
Pentano / <i>n-Pentane</i>	1,43	1,40	2,48
Propano / <i>Propane</i>	1,33	1,70	1,56
Toluene (Toluolo) / <i>Toluene</i>	1,67	1,10	3,20

Sensore tarabile per <i>Sensor calibrated for</i>	K	LIE LEL % v/v	Densità Density Aria/Air = 1
Cianogeno / <i>Cyanogen (Ethanedinitrile)</i>	0,93	6,00	1,80
Cicloesano / <i>Cyclohexane</i>	2,16	1,20	2,90
Ciclopentano / <i>Cyclopentane</i>	1,70	1,40	2,40
Ciclopropano / <i>Cyclopropane</i>	1,34	2,40	1,45
Clorobenzene / <i>Chlorobenzene</i>	2,62	1,40	3,88
Cloruro di etile / <i>Chloroethane (ethyl chloride)</i>	1,54	3,60	2,20
Cloruro di metile <i>Chloromethane (Methyl chloride)</i>	1,14	7,60	1,78
Cloruro di metilene <i>Methylene chloride (Dichloromethane)</i>	0,90	15,50	2,90
Cloruro di vinile (Cloroetilene) <i>Vinyl chloride (1-Chloroethylene)</i>	1,78	3,60	2,15
Decano / <i>Decane</i>	3,43	0,70	4,90
Dimetilbutano / <i>Dimethylbutane</i>	2,36	1,10	3,00
Dimetilidrazina / <i>N, N-Dimethylhydrazine</i>	1,57	2,40	2,01
Eptano / <i>Heptane</i>	1,54	1,10	3,46
Esano / <i>Hexane</i>	1,43	1,00	2,97
Etano / <i>Ethane</i>	1,47	2,50	1,04
Etanolo (Alcool etilico) / <i>Ethanol (Ethyl alcohol)</i>	1,18	3,10	1,59
Etere dietilico / <i>Diethyl ether</i>	1,68	2,70	1,59
Etilammina / <i>Ethylamine</i>	1,59	2,68	1,50
Etilbenzolo (Etilbenzene) / <i>Ethylbenzene</i>	2,45	1,00	3,66
Etilene / <i>Ethylene</i>	1,00	2,30	0,97
Etilmercaptano / <i>Ethylmercaptan (Ethanethiol)</i>	1,54	2,80	2,11
Etilmetiletere (Etere metietilico) <i>Ethyl methyl ether</i>	2,03	2,00	2,10
Formiato di metile / <i>Methyl formate</i>	1,63	5,00	2,07
Idrazina / <i>Hydrazine</i>	1,86	1,80	1,10
Idrogeno / <i>Hydrogen</i>	1,24	4,00	0,07
Idrogeno solforato / <i>Hydrogen sulphide</i>	2,20	4,00	1,19

Sensore tarabile per <i>Sensor calibrated for</i>	K	LIE LEL % v/v	Densità Density Aria/Air = 1
Iso-butano / <i>iso-Butane</i>	2,23	1,30	2,00
iso-Butilene / <i>iso-Butylene</i>	1,72	1,80	1,94
Iso-Pentano / <i>iso-Pentane</i>	2,18	1,40	2,50
Metano / <i>Methane</i>	1,00	4,40	0,55
Metanolo (Alcool metilico) <i>Methanol (Methyl Alcohol)</i>	1,28	5,50	1,11
Metilacetato (Acetato di metile) <i>Methyl acetate</i>	1,84	3,20	2,56
Metilammina / <i>Methylamine</i>	1,28	4,20	1,00
Metilcicloesano / <i>Methylcyclohexane</i>	2,25	1,15	3,38
Metilesano / <i>Methylhexane</i>	2,09	1,20	3,40
Metiletichetone (Butanone) / <i>Butanone (MEK)</i>	2,00	1,80	2,48
Metilidrazina / <i>Methylhydrazine</i>	2,07	2,50	1,60
Metilmercaptano <i>Methanethiol (Methyl mercaptan)</i>	1,41	3,90	1,66
Metilpentano / <i>Methylpentane</i>	2,38	1,10	3,00
Metilpropilchetone <i>Methyl propyl ketone (Pentan-3one)</i>	2,22	1,50	3,00

Sensore tarabile per <i>Sensor calibrated for</i>	K	LIE LEL % v/v	Densità Density Aria/Air = 1
Nitrometano / <i>Nitromethane</i>	1,84	7,30	2,10
Nonano / <i>Nonane</i>	1,84	0,70	4,43
Ossido di carbonio / <i>Carbon Monoxide</i>	1,26	10,90	0,97
Ossido di etilene / <i>Ethylene oxide</i>	2,05	0,09	1,52
Ossido di propilene <i>Propylene oxide (1,2-propylene oxide)</i>	2,28	2,10	2,00
Ottano-n / <i>n-Octane</i>	3,14	0,80	3,93
Pentano / <i>n-Pentane</i>	1,94	1,40	2,48
Pentene-1 / <i>1-Pentene</i>	2,07	1,40	2,40
Propano / <i>Propane</i>	1,95	1,70	1,56
Propilammina-n / <i>Propylamine</i>	1,82	2,00	2,04
Propina / <i>Propyne</i>	2,03	1,70	1,38
Toluene (Toluolo) / <i>Toluene</i>	2,37	1,10	3,20
Trietilammina / <i>Trethylamine</i>	2,22	1,20	3,50
Trimetilammina / <i>Trimethylamine</i>	1,71	2,00	2,04
Xilolo (Xileni) / <i>Xylenes</i>	2,37	1,00	3,66

Tabella 3
Table 3

Sensore tarabile per <i>Sensor calibrated for</i>	LIE LEL % v/v	Densità Density Aria/Air = 1
Acetilene / <i>Acetylene</i>	2,30	0,90
Acetone / <i>Acetone</i>	2,50	2,00
Alcool isopropilico / <i>Iso-propyl alcohol</i>	2,00	2,10
Alcool metilico / <i>Methyl alcohol</i>	5,50	1,11
Butano / <i>Butane</i>	1,40	2,05
1,1-Difluoroetano / <i>1,1-Difluoroethane</i>	3,70	2,30
Eptano / <i>Heptane</i>	1,10	3,46
Esano / <i>Hexane</i>	1,00	2,97
Etanolo (Alcool etilico) / <i>Ethanol (Ethyl alcohol)</i>	3,10	1,59
Etilene / <i>Ethylene</i>	2,30	0,97

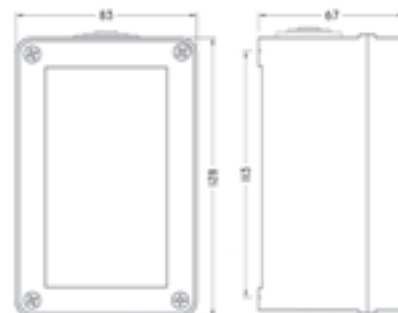
Sensore tarabile per <i>Sensor calibrated for</i>	LIE LEL % v/v	Densità Density Aria/Air = 1
GPL / <i>LPG</i>	1,40	2,05
Isobutano / <i>Iso-Butane</i>	1,30	2,00
Metano / <i>Methane</i>	4,40	0,55
Metiletichetone / <i>Butanone (MEK)</i>	1,80	2,48
Ossido di etilene / <i>Ethylene oxide</i>	0,09	1,52
Pentano / <i>n-Pentane</i>	1,40	2,48
Propano / <i>Propane</i>	1,70	1,56
Stirene / <i>Styrene</i>	1,10	3,60
Toluene (Toluolo) / <i>Toluene</i>	1,10	3,20

Rilevatore Gas industriale, con cartuccia sensore sostituibile

Industrial gas detector, with replaceable sensor cartridgeFilmato
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- Alimentazione: 12÷24 Vcc
- Grado di protezione: IP44
- No. 1 uscita lineare 4÷20 mA
- No. 3 LED mostrano lo stato di funzionamento (rosso: allarme; verde: alimentazione; giallo: guasto)
- Morsetti ad innesto polarizzati

- Power supply: 12÷24 Vdc
- IP rating: IP44
- No. 1 linear 4÷20 mA current output
- No. 3 LED shows working conditions (red: alarm; green: normal; yellow: fault)
- Terminals plug-in polarized type

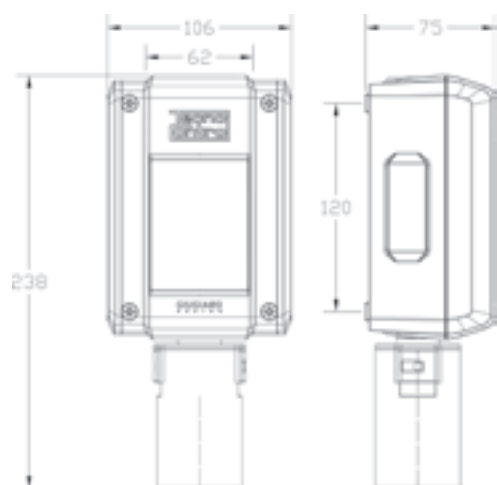


Codice Code	Gas rilevato Gas detected	Cartuccia ricambio Cartridge replacement	Campo misura Measuring range	Assorbimento Electrical input	Bombola taratura Calibration cylinder	Vita media in aria pulita Average time in clean air	Tecnologia Technology
TS210IF1	R134a	NO	0÷2.000 ppm	2 W	on request	>5 anni/years	
TS210IF2	R404a	NO	0÷2.000 ppm	2 W	on request	>5 anni/years	
TS210IF3	R407c	NO	0÷2.000 ppm	2 W	on request	>5 anni/years	
TS210IF4	R410a	NO	0÷2.000 ppm	2 W	on request	>5 anni/years	
TS210IF5	R507	NO	0÷2.000 ppm	2 W	on request	>5 anni/years	
TS210IF6	R22	NO	0÷2.000 ppm	2 W	on request	>5 anni/years	
TS210IF7	R123	NO	0÷2.000 ppm	2 W	on request	>5 anni/years	
TS210IF8	R125	NO	0÷2.000 ppm	2 W	on request	>5 anni/years	
TS210IF9	R407a	NO	0÷2.000 ppm	2 W	on request	>5 anni/years	
TS210IF10	R1234yf	NO	0÷2.000 ppm	2 W	on request	>5 anni/years	
TS210IF1-H	R134a	NO	0÷1.000 ppm	2 W	on request	>5 anni/years	
TS210IF2-H	R404a	NO	0÷1.000 ppm	2 W	on request	>5 anni/years	
TS210IF3-H	R407c	NO	0÷1.000 ppm	2 W	on request	>5 anni/years	
TS210IF4-H	R410a	NO	0÷1.000 ppm	2 W	on request	>5 anni/years	
TS210IF5-H	R507	NO	0÷1.000 ppm	2 W	on request	>5 anni/years	
TS210IF6-H	R22	NO	0÷1.000 ppm	2 W	on request	>5 anni/years	
TS210IF7-H	R123	NO	0÷1.000 ppm	2 W	on request	>5 anni/years	
TS210IF8-H	R125	NO	0÷1.000 ppm	2 W	on request	>5 anni/years	
TS210IF9-H	R407a	NO	0÷1.000 ppm	2 W	on request	>5 anni/years	
TS210IF10-H	R1234yf	NO	0÷1.000 ppm	2 W	on request	>5 anni/years	



Rilevatore Gas Industriale autonomo, con cartuccia sensore sostituibile

Stand Alone industrial gas detector, with replaceable sensor cartridge

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SE237

- Alimentazione 12÷24Vcc - 110/230 Vca
- Grado di protezione: IP65
- No. 3 relé di Allarme. Carico resistivo MAX 24V/1A SPST
- No. 1 relé di Guasto. Carico resistivo MAX 24V/1A SPST
- Livelli di allarme (Relé) programmabili tramite Dip-Switch
- No. 1 uscita lineare 4÷20 mA
- No. 5 LED mostrano lo stato di funzionamento (rosso: allarmi; verde: alimentazione; giallo: guasto)
- Morsetti ad innesto polarizzati

- Power Supply 12÷24Vdc - 110/230 Vac
- IP Rating: IP65
- No. 3 Alarm relays. MAX resistive load 24V/1A SPST
- No. 1 Fault relay. MAX resistive load 24V/1A SPST
- Alarm levels (relays) programmables via DIP-Switch
- No. 1 linear 4÷20 mA current output
- No. 5 LED shows the working conditions (red: alarms; green: normal; yellow: fault)
- Terminals plug-in polarized type

Codice Code	Gas rilevato Gas detected	Cartuccia ricambio Cartridge replacement	Campo misura Measuring range	Assorbimento Electrical input	Bombola taratura Calibration cylinder	Vita media in aria pulita Average time in clean air	Tecnologia Technology
SE237KM	Metano - Methane	ZSK01/IP-ZSK02/IP	0÷20% LEL	3 W	B0200	5 anni/years	
SE237KG	GPL - LPG	ZSK01/IP-ZSK02/IP	0÷20% LEL	3 W	B0200	5 anni/years	
SE237KI	Idrogeno - Hydrogen	ZSK01/IP-ZSK02/IP	0÷20% LEL	3 W	B0200	5 anni/years	
SE237KB	Benzina - Petrol	ZSKB/IP	0÷20% LEL	3 W	B0200	5 anni/years	
SE237PM	Metano - Methane	ZSP/IP	0÷100% LEL	3 W	B0200	5 anni/years	
SE237PG	GPL - LPG	ZSP/IP	0÷100% LEL	3 W	B0200	5 anni/years	
SE237PI	Idrogeno - Hydrogen	ZSP/IP	0÷100% LEL	3 W	B0200	5 anni/years	
SE237PB	Benzina - Petrol	ZSP/IP	0÷100% LEL	3 W	B0200	5 anni/years	
SE237PX	Vedi tabella 1 - See Table 1	ZSP/IP	0÷100% LEL	3 W	B0200	5 anni/years	
SE237EA	Ammoniaca - Ammonia	ZSEA/IP	0÷300 ppm	2 W	B0501	3 anni/years	
SE237EA-H	Ammoniaca - Ammonia	ZSEA-H/IP	0÷300 ppm	2 W	B0501	3 anni/years	
SE237EC-S	Ossido di carbonio - Carbon monoxide	ZSEC/IP	0÷300 ppm	2 W	B0210	2 anni/years	
SE237EC-H	Ossido di carbonio - Carbon monoxide	ZSEC-H/IP	0÷300 ppm	2 W	B0210	2 anni/years	
SE237EH	Idr. solforato - Hydrogen sulphide	ZSEH/IP	0÷100 ppm	2 W	B0420	2 anni/years	
SE237ECL	Cloro - Chlorine	ZSECL/IP	0÷10 ppm	2 W	on request	2 anni/years	
SE237EHCL	Acido cloridrico - Hydrochloric acid	ZSEHCL/IP	0÷10 ppm	2 W	B0477	2 anni/years	
SE237EHCN	Acido cianidrico - Hydrogen cyanide	ZSEHCN/IP	0÷10 ppm	2 W	B0479	2 anni/years	
SE237EN	Ossido di azoto - Nitric oxide	ZSEN/IP	0÷300 ppm	2 W	B0472	2 anni/years	
SE237EN2	Biossido di azoto - Nitrogen dioxide	ZSEN2/IP	0÷30 ppm	2 W	on request	2 anni/years	
SE237ES	Anidride solforosa - Sulphur dioxide	ZSES/IP	0÷20 ppm	2 W	B0468	2 anni/years	
SE237EO	Ossigeno - Oxygen	ZSEO/IP	0÷25% Vol.	2 W	B0416	2 anni/years	
SE237SF1	R134a	ZSSF1/IP	0÷2.000 ppm	3 W	on request	5 anni/years	
SE237SF2	R404a	ZSSF2/IP	0÷2.000 ppm	3 W	on request	5 anni/years	
SE237SF3	R407c	ZSSF3/IP	0÷2.000 ppm	3 W	on request	5 anni/years	
SE237SF4	R410a	ZSSF4/IP	0÷2.000 ppm	3 W	on request	5 anni/years	
SE237SF5	R507	ZSSF5/IP	0÷2.000 ppm	3 W	on request	5 anni/years	
SE237SF1-H	R134a	ZSSF1-H/IP	0÷1.000 ppm	3 W	on request	5 anni/years	
SE237SF2-H	R404a	ZSSF2-H/IP	0÷1.000 ppm	3 W	on request	5 anni/years	
SE237SF3-H	R407c	ZSSF3-H/IP	0÷1.000 ppm	3 W	on request	5 anni/years	
SE237SF4-H	R410a	ZSSF4-H/IP	0÷1.000 ppm	3 W	on request	5 anni/years	
SE237SF5-H	R507	ZSSF5-H/IP	0÷1.000 ppm	3 W	on request	5 anni/years	

Rilevatore Gas industriale, con cartuccia sensore sostituibile

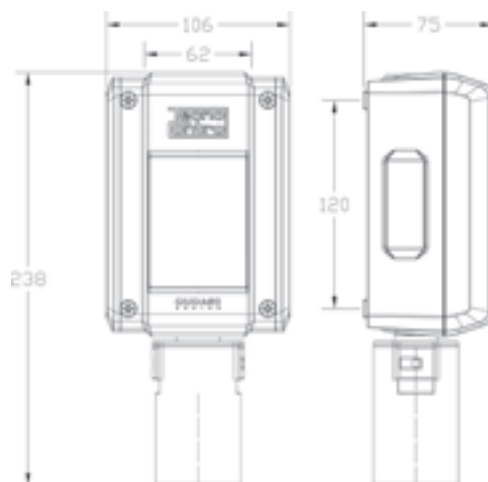
Industrial gas detector, with replaceable sensor cartridge



TS282

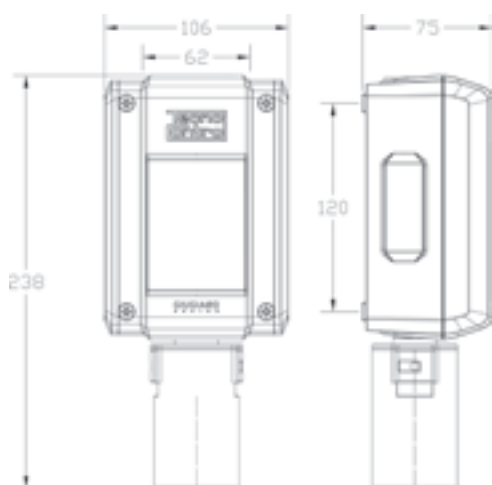
- Alimentazione: 12÷24 Vcc
- Grado di protezione: IP65
- No. 1 uscita lineare 4÷20 mA
- No. 3 LED mostrano lo stato di funzionamento (rosso: allarme; verde: alimentazione; giallo: guasto)
- Morsetti ad innesto polarizzati

- Power supply: 12÷24 Vdc
- IP Rating: IP65
- No. 1 linear 4÷20 mA current output
- No. 3 LED shows the working conditions (red: alarm; green: normal; yellow: fault)
- Terminals plug-in polarized type

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Codice Code	Gas rilevato Gas detected	Cartuccia ricambio Cartridge replacement	Campo misura Measuring range	Assorbimento Electrical input	Bombola taratura Calibration cylinder	Vita media in aria pulita Average time in clean air	Tecnologia Technology
TS282KM	Metano - Methane	ZSK01/IP-ZSK02/IP	0÷20% LEL	3 W	B0200	5 anni/years	
TS282KG	GPL - LPG	ZSK01/IP-ZSK02/IP	0÷20% LEL	3 W	B0200	5 anni/years	
TS282KI	Idrogeno - Hydrogen	ZSK01/IP-ZSK02/IP	0÷20% LEL	3 W	B0200	5 anni/years	
TS282KB	Benzina - Petrol	ZSKB/IP	0÷20% LEL	3 W	B0200	5 anni/years	
TS282PM	Metano - Methane	ZSP/IP	0÷100% LEL	3 W	B0200	5 anni/years	
TS282PG	Gpl - LPG	ZSP/IP	0÷100% LEL	3 W	B0200	5 anni/years	
TS282PI	Idrogeno - Hydrogen	ZSP/IP	0÷100% LEL	3 W	B0200	5 anni/years	
TS282PB	Benzina - Petrol	ZSP/IP	0÷100% LEL	3 W	B0200	5 anni/years	
TS282PX	Vedi tabella 1 - See Table 1	ZSP/IP	0÷100% LEL	3 W	B0200	5 anni/years	
TS282EA	Ammoniaca - Ammonia	ZSEA/IP	0÷300 ppm	2 W	B0501	2 anni/years	
TS282EA-H	Ammoniaca - Ammonia	ZSEA-H/IP	0÷300 ppm	2 W	B0501	2 anni/years	
TS282EC-S	Ossido di carbonio - Carbon monoxide	ZSEC/IP	0÷300 ppm	2 W	B0210	3 anni/years	
TS282EC-H	Ossido di carbonio - Carbon monoxide	ZSEC-H/IP	0÷300 ppm	2 W	B0210	2 anni/years	
TS282EH	Idr. solforato - Hydrogen sulphide	ZSEH/IP	0÷100 ppm	2 W	B0420	2 anni/years	
TS282ECL	Cloro - Chlorine	ZSECL/IP	0÷10 ppm	2 W	on request	2 anni/years	
TS282EHCL	Acido cloridrico - Hydrogen chloride	ZSEHCL/IP	0÷10 ppm	2 W	B0477	2 anni/years	
TS282EHCN	Acido cianidrico - Hydrogen cyanide	ZSEHCN/IP	0÷10 ppm	2 W	B0479	2 anni/years	
TS282EN	Ossido di azoto - Nitric oxide	ZSEN/IP	0÷300 ppm	2 W	B0472	2 anni/years	
TS282EN2	Biossido di azoto - Nitrogen dioxide	ZSEN2/IP	0÷30 ppm	2 W	on request	2 anni/years	
TS282ES	Anidride solforosa - Sulfur dioxide	ZSES/IP	0÷20 ppm	2 W	B0468	2 anni/years	
TS282EO	Ossigeno - Oxygen	ZSEO/IP	0÷25% Vol.	2 W	B0416	2 anni/years	
TS282SF1	R134a	ZSSF1/IP	0÷2.000 ppm	2 W	on request	5 anni/years	
TS282SF2	R404a	ZSSF2/IP	0÷2.000 ppm	2 W	on request	5 anni/years	
TS282SF3	R407c	ZSSF3/IP	0÷2.000 ppm	2 W	on request	5 anni/years	
TS282SF4	R410a	ZSSF4/IP	0÷2.000 ppm	2 W	on request	5 anni/years	
TS282SF5	R507	ZSSF5/IP	0÷2.000 ppm	2 W	on request	5 anni/years	
TS282SF1-H	R134a	ZSSF1-H/IP	0÷1.000 ppm	2 W	on request	5 anni/years	
TS282SF2-H	R404a	ZSSF2-H/IP	0÷1.000 ppm	2 W	on request	5 anni/years	
TS282SF3-H	R407c	ZSSF3-H/IP	0÷1.000 ppm	2 W	on request	5 anni/years	
TS282SF4-H	R410a	ZSSF4-H/IP	0÷1.000 ppm	2 W	on request	5 anni/years	
TS282SF5-H	R507	ZSSF5-H/IP	0÷1.000 ppm	2 W	on request	5 anni/years	

Rilevatore Gas Industriale, con cartuccia sensore sostituibile INFRAROSSO

Industrial gas detector, with replaceable infrared sensor cartridgeFilmato
VideoIstruzioni d'uso
User's ManualCertificazione
Certification

TS282 / SE136IC2 / TS210IC2

- Alimentazione: 12÷24 Vcc
- Grado di protezione: IP65 (IP44 per SE136IC2 e TS210IC2)
- No. 3 relé di Allarme. Carico resistivo MAX 24V/1A SPST (solo SE136IC2)
- No. 1 relé di Guasto. Carico resistivo MAX 24V/1A SPST (solo SE136IC2)
- Livelli di allarme (Relé) programmabili tramite Dip-Switch (solo SE136IC2)
- No. 1 uscita lineare 4÷20 mA
- No. 5 LED mostrano lo stato di funzionamento (rosso: allarme; verde: alimentazione; giallo: guasto)
- Morsetti ad innesto polarizzati
- Power supply: 12÷24 Vdc
- IP rating: IP65 (IP44 for SE136IC2 and TS210IC2)
- No. 3 Alarm relays. MAX resistive load 24V/1A SPST (only SE136IC2)
- No. 1 Fault relay. MAX resistive load 24V/1A SPST (only SE136IC2)
- Alarm levels (relays) programmable via DIP-Switch (only SE136IC2)
- No. 1 linear 4÷20 mA current output
- No. 5 LED shows the working conditions (red: alarm; green: normal; yellow: fault)
- Terminals plug-in polarized type

Rilevatore con uscita relè e sensore INFRAROSSO

Gas detector with output relay and INFRARED sensor

Codice Code	Gas rilevato Gas detected	Cartuccia ricambio Cartridge replacement	Campo misura Measuring range	Assorbimento Electrical input	Bombola taratura Calibration cylinder	Vita media in aria pulita Average time in clean air	Tecnologia Technology
SE136IC2	Anidride carbonica - Carbon dioxide	NO	0÷2% Vol.	2,5 W	B0403	>5 anni/years	IR  

Codice Code	Gas rilevato Gas detected	Cartuccia ricambio Cartridge replacement	Campo misura Measuring range	Assorbimento Electrical input	Bombola taratura Calibration cylinder	Vita media in aria pulita Average time in clean air	Tecnologia Technology
TS210IC2	Anidride carbonica - Carbon dioxide	NO	0÷2% Vol.	2,5 W	B0403	>5 anni/years	IR  
TS282IC2	Anidride carbonica - Carbon dioxide	ZSIC2/IP	0÷5% Vol.	2 W	B0405	>5 anni/years	 IR  
TS282IC2-H	Anidride carbonica - Carbon dioxide	ZSIC2-H/IP	0÷5.000 ppm	2 W	B0404	>5 anni/years	 IR  

Rilevatore Gas industriale autonomo, con cartuccia sensore sostituibile Certificato ATEX per zona 1

Stand Alone industrial gas detector, with replaceable cartridge sensor ATEX certified for Zone 1



I rilevatori di gas in custodia antideflagrante per l'impiego in aree con presenza d'atmosfera potenzialmente esplosive, certificati **CESI 03 ATEX 323 X** (EN60079-0 ed EN60079-1) sono caratterizzati dalla seguente marcatura ATEX (Direttiva 2014/34/UE):

The gas detectors in explosion proof housing for use in potentially explosive atmospheres are certified **CESI 03 ATEX 323 X** (EN60079-0 ed EN60079-1) and characterized by the following EX marking (Directive 2014/34/UE):

CE 0722 **Ex** II 2G Ex d IIC T6 Gb



Filmato
Video



Istruzioni d'uso
User's Manual

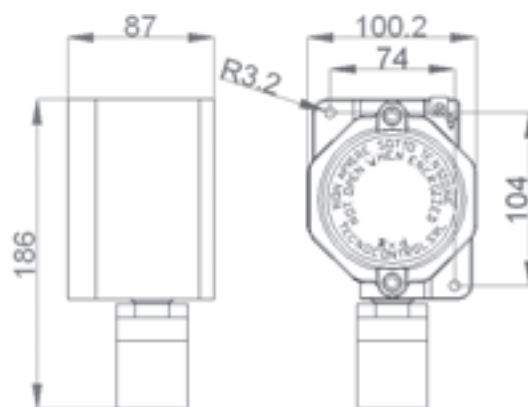


Certificazione
Certification

SE138

- Alimentazione 12÷24Vcc
- Marcatura ATEX **Ex** : II 2G Ex d IIC T6 Gb
- No. 3 relé di Allarme a stato solido. Carico resistivo MAX 24V/1A SPST
- No. 1 relé di Guasto a stato solido. Carico resistivo MAX 24V/1A SPST
- Livelli di allarme (Relé) programmabili tramite Dip-Switch
- No. 1 uscita lineare 4÷20 mA
- Morsetti ad innesto polarizzati

- Power Supply 12÷24Vcc
- Ex marking **Ex** : II 2G Ex d IIC T6 Gb
- No. 3 Alarm relays solid state type. MAX resistive load 24V/1A SPST
- No. 1 Fault relay solid state type. MAX resistive load 24V/1A SPST
- Alarm levels (relays) programmable via DIP-Switch
- No. 1 linear 4÷20 mA current output
- Terminals plug-in polarized type



Codice Code	Gas rilevato Gas detected	Cartuccia ricambio Cartridge replacement	Campo misura Measuring range	Assorbimento Electrical input	Bombola taratura Calibration cylinder	Vita media in aria pulita Average time in clean air	Tecnologia Technology
SE138KM	Metano - Methane	ZSK01/EX-ZSK02/EX	0÷20% LEL	3 W	B0200	5 anni/years	CA   
SE138KG	GPL - LPG	ZSK01/EX-ZSK02/EX	0÷20% LEL	3 W	B0200	5 anni/years	
SE138KI	Idrogeno - Hydrogen	ZSK01/EX-ZSK02/EX	0÷20% LEL	3 W	B0200	5 anni/years	
SE138KB	Benzina - Petrol	ZSK04/EX	0÷20% LEL	3 W	B0200	5 anni/years	
SE138PM	Metano - Methane	ZSP05/EX	0÷100% LEL	3 W	B0200	5 anni/years	
SE138PG	GPL - LPG	ZSP05/EX	0÷100% LEL	3 W	B0200	5 anni/years	PE   
SE138PI	Idrogeno - Hydrogen	ZSP05/EX	0÷100% LEL	3 W	B0200	5 anni/years	
SE138PB	Benzina - Petrol	ZSP05/EX	0÷100% LEL	3 W	B0200	5 anni/years	
SE138PE	Acetilene - Acetylene	ZSP02/EX	0÷100% LEL	3 W	B0200	5 anni/years	
SE138PS	Stirene - Styrene	ZSP03/EX	0÷100% LEL	3 W	B0200	5 anni/years	
SE138PX	Vedi tabella 1 - See Table 1	ZSP05/EX	0÷100% LEL	3 W	B0200	5 anni/years	EL   
SE138PX-H	Vedi tabella 2 - See Table 2	ZSP02/EX	0÷100% LEL	3 W	B0200	5 anni/years	
SE138EA	Ammoniaca - Ammonia	ZSEA1/EX	0÷300 ppm	2 W	B0501	2 anni/years	
SE138EA-H	Ammoniaca - Ammonia	ZSEA2/EX	0÷300 ppm	2 W	B0501	2 anni/years	
SE138EC-S	Ossido di carbonio - Carbon monoxide	ZSEC1/EX	0÷300 ppm	2 W	B0210	3 anni/years	
SE138EC-H	Ossido di carbonio - Carbon monoxide	ZSEC2/EX	0÷300 ppm	2 W	B0210	2 anni/years	EL   
SE138EH	Idr. solforato - Hydrogen sulphide	ZSEH1/EX	0÷100 ppm	2 W	B0420	2 anni/years	
SE138EHCN	Acido cloridrico - Hydrochloric acid	ZSEHCN/EX	0÷10 ppm	2 W	B0479	2 anni/years	
SE138EN	Ossido di azoto - Nitrogen monoxide	ZSEN1/EX	0÷300 ppm	2 W	B0472	2 anni/years	
SE138EN2	Biossido di azoto - Nitrogen dioxide	ZSEN2/EX	0÷30 ppm	2 W	on request	2 anni/years	
SE138ES	Anidride solforosa - Sulfur dioxide	ZSES1/EX	0÷20 ppm	2 W	B0468	2 anni/years	EL   
SE138EO	Ossigeno - Oxygen	ZSE01/EX	0÷25% Vol.	2 W	B0416	2 anni/years	

Rilevatore Gas industriale, con cartuccia sensore sostituibile **Certificato ATEX per zona 1**

*Industrial gas detector, with replaceable cartridge sensor **ATEX certified for Zone 1***



Filmato
Video



Istruzioni d'uso
User's Manual



Certificazione
Certification

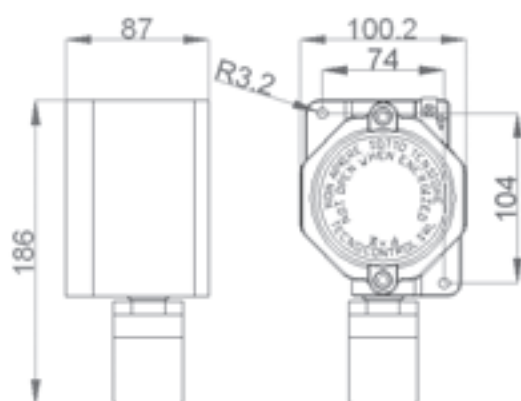
I rilevatori di gas in custodia antideflagrante per l'impiego in aree con presenza d'atmosfera potenzialmente esplosive, certificati **CESI 03 ATEX 323 X** (EN60079-0 ed EN60079-1) sono caratterizzati dalla seguente marcatura ATEX (Direttiva 2014/34/UE):

The gas detectors in explosion proofhousing for use in potentially explosive atmospheres are certified **CESI 03 ATEX 323 X** (EN60079-0 ed EN60079-1) and characterized by the following EX marking (Directive 2014/34/UE):

CE 0722  II 2 G Ex d IIC T6 Gb



TS293



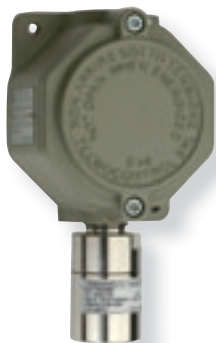
- Alimentazione: 12÷24 Vcc
- Marcatura ATEX  : II 2G Ex d IIC T6 Gb
- No. 1 uscita lineare 4÷20 mA
- Morsetti ad innesto polarizzati

- Power supply: 12÷24 Vdc
- Ex marking  : II 2G Ex d IIC T6 Gb
- No. 1 linear 4÷20 mA current output
- Terminals plug-in polarized type

Codice Code	Gas rilevato Gas detected	Cartuccia ricambio Cartridge replacement	Campo misura Measuring range	Assorbimento Electrical input	Bombola taratura Calibration cylinder	Vita media in aria pulita Average time in clean air	Tecnologia Technology
TS293KM	Metano - Methane	ZSK01/EX-ZSK02/EX	0÷20% LEL	2 W	B0200	5 anni/years	  
TS293KG	GPL - LPG	ZSK01/EX-ZSK02/EX	0÷20% LEL	2 W	B0200	5 anni/years	
TS293KI	Idrogeno - Hydrogen	ZSK01/EX-ZSK02/EX	0÷20% LEL	2 W	B0200	5 anni/years	
TS293KB	Benzina - Petrol	ZSK04/EX	0÷20% LEL	2 W	B0200	5 anni/years	
TS293PM	Metano - Methane	ZSP05/EX	0÷100% LEL	2 W	B0200	5 anni/years	
TS293PG	GPL - LPG	ZSP05/EX	0÷100% LEL	2 W	B0200	5 anni/years	  
TS293PI	Idrogeno - Hydrogen	ZSP05/EX	0÷100% LEL	2 W	B0200	5 anni/years	
TS293PB	Benzina - Petrol	ZSP05/EX	0÷100% LEL	2 W	B0200	5 anni/years	
TS293PE	Acetilene - Acetylene	ZSP02/EX	0÷100% LEL	2 W	B0200	5 anni/years	
TS293PS	Stirene - Styrene	ZSP03/EX	0÷100% LEL	2 W	B0200	5 anni/years	
TS293PX	Vedi tabella 1 - See Table 1	ZSP05/EX	0÷100% LEL	2 W	B0200	5 anni/years	  
TS293PX-H	Vedi tabella 2 - See Table 2	ZSP02/EX	0÷100% LEL	2 W	B0200	5 anni/years	
TS293EA	Ammoniaca - Ammonia	ZSEA1/EX	0÷300 ppm	2 W	B0501	2 anni/years	
TS293EA-H	Ammoniaca - Ammonia	ZSEA2/EX	0÷300 ppm	2 W	B0501	2 anni/years	
TS293EC-S	Ossido di carbonio - Carbon monoxide	ZSEC1/EX	0÷300 ppm	2 W	B0210	3 anni/years	
TS293EC-H	Ossido di carbonio - Carbon monoxide	ZSEC2/EX	0÷300 ppm	2 W	B0210	2 anni/years	  
TS293EH	Idr. solforato - Hydrogen sulphide	ZSEH1/EX	0÷100 ppm	2 W	B0420	2 anni/years	
TS293EHCN	Acido cloridrico - Hydrochloric acid	ZSEHCN/EX	0÷10 ppm	2 W	B0479	2 anni/years	
TS293EN	Ossido di azoto - Nitrogen monoxide	ZSEN1/EX	0÷300 ppm	2 W	B0472	2 anni/years	
TS293EN2	Biossido di azoto - Nitrogen dioxide	ZSEN2/EX	0÷30 ppm	2 W	on request	2 anni/years	
TS293ES	Anidride solforosa - Sulphur dioxide	ZSES1/EX	0÷20 ppm	2 W	B0468	2 anni/years	  
TS293EO	Ossigeno - Oxygen	ZSE01/EX	0÷25% Vol.	2 W	B0416	2 anni/years	

Rilevatore Gas Industriale, con cartuccia sensore sostituibile INFRAROSSO Certificato ATEX per zona 1

Industrial gas detector, with replaceable infrared sensor cartridge ATEX certified for zone 1



I rilevatori di gas in custodia antideflagrante per l'impiego in aree con presenza d'atmosfera potenzialmente esplosive, certificati **CESI 03 ATEX 323 X** (EN60079-0 ed EN60079-1) sono caratterizzati dalla seguente marcatura ATEX (Direttiva 2014/34/UE):

The gas detectors in explosion proof housing for use in potentially explosive atmospheres are certificated **CESI 03 ATEX 323 X** (EN60079-0 ed EN60079-1) and characterized by the following EX marking (Directive 2014/34/UE):

CE 0722  II 2 G Ex d IIC T6 Gb



Filmato
Video



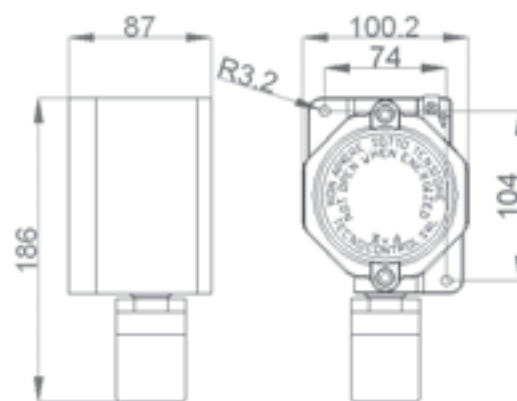
Istruzioni d'uso
User's Manual



Certificazione
Certification

TS293

- Alimentazione: 12÷24 Vcc
- Marcatura ATEX  : II 2G Ex d IIC T6 Gb
- No. 1 uscita lineare 4÷20 mA
- Morsetti ad innesto polarizzati
- Power supply: 12÷24 Vdc
- Ex marking  : II 2G Ex d IIC T6 Gb
- No. 1 linear 4÷20 mA current output
- Terminals plug-in polarized type



Codice Code	Gas rilevato Gas detected	Cartuccia ricambio Cartridge replacement	Campo misura Measuring range	Assorbimento Electrical input	Bombola taratura Calibration cylinder	Vita media in aria pulita Average time in clean air	Tecnologia Technology
TS293IC2	Anidride carbonica - Carbon dioxide	ZSIC01/EX	0÷5% Vol.	2 W	B0405	>5 anni/years	  
TS293IC2-H	Anidride carbonica - Carbon dioxide	ZSIC02/EX	0÷5.000 ppm	2 W	B0404	>5 anni/years	
TS293IB	Benzina - Petrol	ZSIB01/EX	0÷100% LEL	2 W	B0200	>5 anni/years	
TS293IG	GPL - LPG	ZSIG01/IP	0÷100% LEL	2 W	B0201	>5 anni/years	  
TS293IM	Metano - Methane	ZSIM01/EX	0÷100% LEL	2 W	B0202	>5 anni/years	
TS293IX	A richiesta - on request	ZSIX01/EX	0÷100% LEL	2 W	B0203	>5 anni/years	

Rilevatore gas industriale, con cartuccia sensore sostituibile con DISPLAY Certificato ATEX

Industrial Gas detector, with replaceable sensor - WITH DISPLAY - ATEX certified

Filmato
VideoIstruzioni d'uso
User's ManualCertificazione
Certification

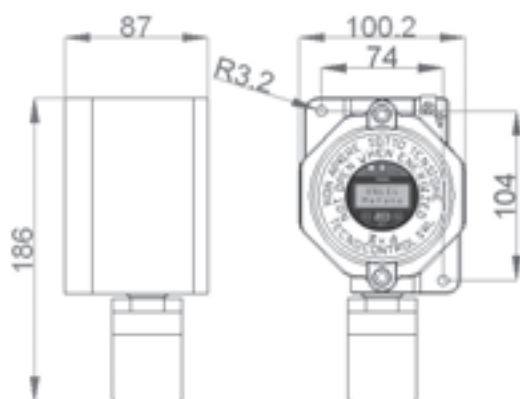
I rilevatori di gas in custodia antideflagrante per l'impiego in aree con presenza d'atmosfera potenzialmente esplosive, certificati **CESI 03 ATEX 323 X** (EN60079-0 ed EN60079-1) sono caratterizzati dalla seguente marcatura ATEX (Direttiva 2014/34/UE):

The gas detectors in explosion proof housing for use in potentially explosive atmospheres are certified **CESI 03 ATEX 323 X** (EN60079-0 ed EN60079-1) and characterized by the following EX marking (Directive 2014/34/UE):

CE 0722  II 2G Ex d IIC T6 Gb



TS593



- Alimentazione: 12÷24 Vcc
- Marcatura ATEX  : II 2G Ex d IIC T6 Gb
- No. 1 uscita lineare 4÷20 mA
- Morsetti ad innesto polarizzati
- Provvisto di Display con visualizzazione in tempo reale della concentrazione di gas
- Taratura non intrusiva

- Power supply: 12÷24 Vdc
- Ex marking  : II 2G Ex d IIC T6 Gb
- No. 1 linear 4÷20 mA current output
- Terminals plug-in polarized type
- It is equipped with display and with real-time visualization of the concentration of the gas
- Not intrusive calibration

Codice Code	Gas rilevato Gas detected	Cartuccia ricambio Cartridge replacement	Campo misura Measuring range	Assorbimento Electrical input	Bombola taratura Calibration cylinder	Vita media in aria pulita Average time in clean air	Tecnologia Technology
TS593E0	Ossigeno - Oxygen	ZSE01/EX	0÷25% Vol.	2 W	B0416	2 anni/years	   
TS593IC2	Anidride carbonica - Carbon dioxide	ZSIC01/EX	0÷5% Vol.	2 W	B0405	>5 anni/years	   
TS593IC2-H	Anidride carbonica - Carbon dioxide	ZSIC02/EX	0÷5.000 ppm	2 W	B0404	>5 anni/years	   
TS593IB	Benzina - Petrol	ZSIB01/EX	0÷100% LEL	3 W	B0200	>5 anni/years	   
TS593IE	Acetilene - Acetylene	ZSIE01/EX	0÷100% LEL	3 W	B0200	>5 anni/years	
TS593IG	GPL - LPG	ZSIG01/IP	0÷100% LEL	3 W	B0200	>5 anni/years	
TS593IM	Metano - Methane	ZSIM01/EX	0÷100% LEL	3 W	B0200	>5 anni/years	
TS593IX	A richiesta - on request	ZSIX01/EX	0÷100% LEL	3 W	B0200	>5 anni/years	   
TS593PX-H	Vedi tabella 2 - See Table 2	VEDI TABELLA 2	0÷100% LEL	3 W	B0200	5 anni/years	

Rilevatore Gas industriale, in grado di rilevare due gas contemporaneamente

Industrial gas detector, able to detect two gases simultaneouslyFilmato
VideoIstruzioni d'uso
User's ManualCertificazione
Certification**TS255**

Per applicazioni come i parcheggi interrati o dovunque sia necessario rilevare gas di natura diversa. Con cartucce sensori sostituibili.

- Alimentazione: 12÷24 Vcc
- Già precablato
- Grado di protezione: IP65
- No. 2 uscite lineari 4÷20 mA
- No. 5 LED mostrano lo stato di funzionamento (No. 2 rossi: allarme sensore 1 e 2; No. 1 verde: alimentazione; No. 2 gialli: guasto sensore 1 e 2)
- Morsetti ad innesto polarizzati

For applications such as underground car parks or wherever it is necessary to detect two gases of different nature. With replaceable sensor cartridges.

- Power supply: 12÷24 Vdc
- Already pre-wired
- IP Rating: IP65
- No. 2 linear 4÷20 mA current outputs
- No. 5 LED shows the working conditions (No. 2 red: alarm sensor 1 and 2; No. 1 green: normal; No. 2 yellow: fault 1 and 2)
- Terminals plug-in polarized type

Estrema praticità di installazione
Easy installationEstrema praticità di smontaggio
Easy disassembly

Codice Code	Gas rilevato Gas detected	Cartuccia ricambio Cartridge replacement	Campo misura Measuring range	Assorbimento Electrical input	Bombola taratura Calibration cylinder	Vita media in aria pulita Average time in clean air	Tecnologia Technology
TS255CB	Ossido di carbonio - Carbon monoxide Benzina - Petrol	ZSEC1 ZSK04	0÷300 ppm 0÷20% LEL	3 W	B0210 B0200	3 anni/years 5 anni/years	EL CA 4-20 ⚠ 🔥
TS255CN2	Ossido di carbonio - Carbon monoxide Biossido di azoto - Nitrogen dioxide	ZSEC1 ZSEN2	0÷300 ppm 0÷30 ppm	2 W	B0210 on request	3 anni/years 2 anni/years	EL 4-20 ⚠