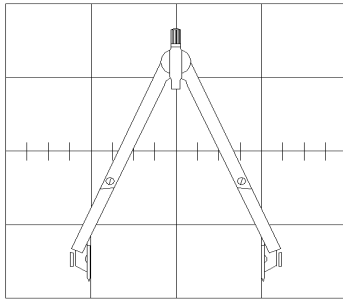


**ก๊าซที่ตรวจจับได้**  
**DETECTABLE GAS**

ลำดับที่	ชื่อก๊าซ	ลำดับที่	ชื่อก๊าซ	ลำดับที่	ชื่อก๊าซ
1	Acetaldehyde	35	ethylcyclopentane	69	n-Amyl Alcohol
2	Acetic Acid	36	Ethylene	70	naphtha
3	Acetic Anhydride	37	Ethyleneoxide	71	n-Butyl Alcohol
4	Acetone	38	Ethyl Formate	72	n-Butyl Benzene
5	Acetylene	39	Ethylmercaptan	73	n-Butyric Acid
6	Alkyl Alcohol	40	Exane	74	Nitric oxide
7	Ammonia	41*	Formaldehyde	75	Nitrogen dioxide
8	Aniline	42	Gasoline vapors	76	Nitromethane
9	Benzene	43	G.P.L.	77	n-Nonane
10	Biphenyl	44	Heptane	78	n-Octane
11	1,3-Butadiene	45	Hexane	79	n-Propylamine
12	Butane	46	Hydrazine	80	n-utyl Alcohol
13	Butane-1	47	Hydrogen	81	Oxygen
14	Carbon Dioxide	48	Hydrogen chloride	82	Ozone
15	Carbon Disulphide	49	Hydrogen cyanide	83	Pentane
16	Carbon monoxide	50	Hydrogen sulfide	84*	Perchlorate
17	Carbon Oxysulphide	51	iso-Butane	85*	Phosphine
18	Chlorine	52	iso-Butyl Alcohol	86	Propane
19	cisbutene-2	53	iso-Butyl Benzene	87	Propyl Alcohol
20	Cyanogen	54	iso-Pentane	88	Propylene
21	Cyclohexane	55	iso-Propyl ether	89	Propyleneoxide
22	Cyclopropane	56	kerosene	90	Propyne
23	Diethylamine	57	Methane	91	Silane/Germane
24	Diethyl Ether	58	Methyl Acetate	92	Sulphur dioxide
25	Dimethylamine	59	Methyl Alcohol	93	Tert-Butyl Alcohol
26	n-Amyl Alcohol	60	Methylamine	94	Tetrahydrothiophene
27	2,3-Dimethylpentane	61	Methylcyclohexane	95	Triethylamine
28	2,2-Dimethylpropane	62	Methylethylether	96	Toluene
29	Dimethylsulphide	63	Methylethylketone	97	Trans-Butene-2
30	1,4-Dioxane	64	Methyl Formate	98	trementina
31	Ethane	65	Methyl mercaptan	99	Vapori di benzina
32	Etyl alcohol	66	Methyl n-propylketone	100	Vinyl Chloride
33	Ethylamine	67	Methylpropionate	101	Vinylethylther
34	Ethyl Benzene	68	Mercaptane	102	Xylene

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**PRICE LIST****SENSORS****MAY/07**

Rev.1.4

**Gas Transmitters enose ® technology****1. Atex notified IP65 Gas Transmitters**

- 1.1 4-20mA Gas Transmitters with General purpose Catalytic sensor
- 1.2 4-20mA Gas Transmitters with High Quality Catalytic sensor
- 1.3 Relay outputs Gas Transmitters with General purpose Catalytic sensor
- 1.4 Relay outputs Gas Transmitters with High Quality Catalytic sensor
- 1.5 0-21% Oxigen Trasmitters
- 1.6 Toxic gases 4-20mA Trasmitters with MOS Hybrid cell
- 1.7 Toxic gases Relay outputs Trasmitters with MOS Hybrid cell
- 1.8 Toxic gases 4-20mA Trasmitters with Electrochemical cell
- 1.9 Toxic gases Relay outputs Trasmitters with Electrochemical cell

**2. Atex notified IP65 Gas Transmitters with Display**

- 2.1 4-20mA Gas Transmitters with General purpose Catalytic sensor
- 2.2 4-20mA Gas Transmitters with High Quality Catalytic sensor
- 2.3 Relay outputs Gas Transmitters with General purpose Catalytic sensor
- 2.4 Relay outputs Gas Transmitters with High Quality Catalytic sensor
- 2.5 0-21% Oxigen Trasmitters
- 2.6 Toxic gases 4-20mA Trasmitters with MOS Hybrid cell
- 2.7 Toxic gases Relay outputs Trasmitters with MOS Hybrid cell
- 2.8 Toxic gases 4-20mA Trasmitters with Electrochemical cell
- 2.9 Toxic gases Relay outputs Trasmitters with Electrochemical cell

**3. DUST IP65 Gas Transmitters**

- 3.1 4-20mA Gas Transmitters with General purpose Catalytic sensor
- 3.2 4-20mA Gas Transmitters with High Quality Catalytic sensor
- 3.3 Relay outputs Gas Transmitters with General purpose Catalytic sensor
- 3.4 Relay outputs Gas Transmitters with High Quality Catalytic sensor
- 3.5 0-30% , 0-100% Oxigen Trasmitters
- 3.6 Toxic gases 4-20mA Trasmitters with MOS Hybrid cell
- 3.7 Toxic gases Relay outputs Trasmitters with MOS Hybrid cell
- 3.8 Toxic gases 4-20mA Trasmitters with Electrochemical cell
- 3.9 Toxic gases Relay outputs Trasmitters with Electrochemical cell

**4. DUST IP65 Gas Transmitters with Display and Keypad**

- 4.1 4-20mA Gas Transmitters with General purpose Catalytic sensor
- 4.2 4-20mA Gas Transmitters with High Quality Catalytic sensor
- 4.3 Relay outputs Gas Transmitters with General purpose Catalytic sensor
- 4.4 Relay outputs Gas Transmitters with High Quality Catalytic sensor
- 4.5 0-30% , 0-100% Oxygen Trasmitters
- 4.6 Toxic gases 4-20mA Trasmitters with MOS Hybrid cell
- 4.7 Toxic gases Relay outputs Trasmitters with MOS Hybrid cell
- 4.8 Toxic gases 4-20mA Trasmitters with Electrochemical cell
- 4.9 Toxic gases Relay outputs Trasmitters with Electrochemical cell

**5. Park Gas Transmitters 4-20 mA**

- 5.1 Explosive Gases with Catalytic sensor
- 5.2 Toxic gases Trasmitters with MOS Hybrid cell

**6. Part number description****7. Gas Transmitters Accesories****8. Electronic Heat Detectors TMP2**

## GAS TRANSMITTERS

enose® technology

### 1. enose® - RAS/AD

Microprocessor based gas detector  
designed to measure gases concentration with  
different range (%L.E.L. or ppm)  
IIG EEX-d IIC T6 certified  
ATEX notified



1.1	Explosive gases		(General Purpose Catalytic sensor)		Price
Cod.	SOSTANZA	Formula	LEL %v/v	UEL %v/v	LIST Euro
RAS/AD/101/AA	Methane	CH4	5	15	346.63
RAS/AD/102/AA	G.P.L.	mix.			346.63
RAS/AD/103/AA	Pentane	C5H12	1.4	8	346.63
RAS/AD/104/AA	Propane	CH3CH2CH3	2	9.5	346.63
RAS/AD/105/AA	Butane	C4H10	1.5	8.5	346.63
RAS/AD/106/AA	Ethyl alcohol				346.63
RAS/AD/107/AA	Propyl Alcohol				346.63
RAS/AD/108/AA	Methyl Alcohol				346.63
RAS/AD/109/AA	n-Butyl Alcohol	CH3(CH2)2 CH2OH	1.4	11.3	346.63
RAS/AD/110/AA	Gasoline vapors	mix.			346.63
RAS/AD/127/AA	Hydrogen	H2	4	75.6	346.63
RAS/AD/140/AA	Ammonia	NH3	15	30.2	346.63
RAS/AD/142/AA	Heptane	C7H16	1.1	6.7	346.63
RAS/AD/143/AA	Exane	CH3(CH2)4CH3	1.2	7.4	346.63
RAS/AD/145/AA	kerosene	mix	0.7	5	346.63
RAS/AD/146/AA	naphtha	mix	0.9	6	346.63

1.2	Explosive gases		High Quality Poison resistant		Price
Cod.	SOSTANZA	Formula	LEL %v/v	UEL %v/v	LIST Euro
RAS/AD/101S/AA	Methane	CH4	5	15	630.40
RAS/AD/102S/AA	G.P.L.	mix.			630.40
RAS/AD/103S/AA	Pentane	C5H12	1.4	8	630.40
RAS/AD/104S/AA	Propane	CH3CH2CH3	2	9.5	630.40
RAS/AD/105S/AA	Butane	C4H10	1.5	8.5	630.40
RAS/AD/106S/AA	Ethyl alcohol				630.40
RAS/AD/107S/AA	Propyl Alcohol				630.40
RAS/AD/108S/AA	Methyl Alcohol				630.40
RAS/AD/109S/AA	n-Butyl Alcohol	CH3(CH2)2 CH2OH	1.4	11.3	630.40
RAS/AD/110S/AA	Gasoline vapors	mix.			630.40
RAS/AD/127S/AA	Hydrogen	H2	4	75.6	630.40
RAS/AD/142S/AA	Heptane	C7H16	1.1	6.7	630.40
RAS/AD/143S/AA	Exane	CH3(CH2)4CH3	1.2	7.4	630.40
RAS/AD/145S/AA	kerosene	mix	0.7	5	630.40
RAS/AD/146S/AA	naphtha	mix	0.9	6	630.40

1.2 Cod.	Explosive gases 4-20mA Output		High Quality Poison resistant Catalytic sensor		Price
	Formula	LEL %v/v	UEL %v/v	LIST Euro	
RAS/AD/111/AA	Acetaldehyde	CH3CHO	4	57	630.40
RAS/AD/112/AA	Acetic Acid	CH3COOH	4	17	630.40
RAS/AD/113/AA	Acetone	(CH3)2CHO	2.15	13	630.40
RAS/AD/114/AA	Acetic Anhydride	(CH3CO)2O	2	10	630.40
RAS/AD/115/AA	Acetylene	C2H2	1.5	100	630.40
RAS/AD/116/AA	n-Butyl Benzene	C4H9OH			630.40
RAS/AD/117/AA	Alkyl Alcohol	C6-C12			630.40
RAS/AD/118/AA	Aniline	C6H5NH2	1.2	11	630.40
RAS/AD/119/AA	Benzene	C6H6	1.2	8	630.40
RAS/AD/120/AA	n-Amyl Alcohol	C5H12O			630.40
RAS/AD/121/AA	Biphenyl	C12H10			630.40
RAS/AD/122/AA	Methylethylketone	C2H5COCH3	1.8	11.5	630.40
RAS/AD/123/AA	1,3-Butadiene	C4H6	1.4	16.3	630.40
RAS/AD/124/AA	iso-Butane	C4H10	1.3	9.8	630.40
RAS/AD/125/AA	Butane-1	C4H8			630.40
RAS/AD/126/AA	Vinyl Chloride	CH2=CHCL	3.8	31	630.40
RAS/AD/128/AA	cisbutene-2	C4H8			630.40
RAS/AD/129/AA	Trans-Butene-2	C4H8			630.40
RAS/AD/130/AA	Cyclohexane	CH2 (CH2)4 CH2	1.2	8.3	630.40
RAS/AD/131/AA	Cyclopropane	CH2 CH2 CH2	2.4	10.4	630.40
RAS/AD/132/AA	iso-Butyl Alcohol	C4H10 O			630.40
RAS/AD/133/AA	Diethyl Ether	(C2 H5)2 O	1.7	36	630.40
RAS/AD/134/AA	Dimethylamine	(CH3)2 HN	2.8	14.4	630.40
RAS/AD/135/AA	Tert-Butyl Alcohol	C4H10 O			630.40
RAS/AD/136/AA	Triethylamine	(CH3CH2)3N	1.2	8	630.40
RAS/AD/137/AA	Ethyl Benzene	C2H5C6H5			630.40
RAS/AD/138/AA	Ethylene	CH2=CH2			630.40
RAS/AD/139/AA	Ethyleneoxide	CH2=CH2 O			630.40
RAS/AD/141/AA	Ammonia	NH3	10.000 ppm		630.40
RAS/AD/144/AA	iso-Propyl ether	C6H14O			630.40
RAS/AD/147/AA	Toluene	C6H5CH3	1.2	7	630.40
RAS/AD/148/AA	trementina	mix	0.8		630.40
RAS/AD/149/AA	Xylene	C6H4(CH3)2	1	7.6	630.40
RAS/AD/150/AA	iso-Butyl Benzene	C10H14			630.40
RAS/AD/151/AA	n-Butyric Acid	C4H8O2			630.40
RAS/AD/152/AA	Carbon Disulphide	CS2	0.6	60	630.40
RAS/AD/153/AA	Carbon Oxysulphide	COS			630.40
RAS/AD/154/AA	Cyanogen	(CN)2			630.40
RAS/AD/155/AA	Decane	C10H22	0.7	5.6	630.40
RAS/AD/156/AA	Diethylamine	C4H11N	1.7	10	630.40
RAS/AD/157/AA	2,3-Dimethylpentane	C7H16			630.40
RAS/AD/158/AA	2,2-Dimethylpropane	C7H16			630.40
RAS/AD/159/AA	Dimethylsulphide	(CH3)4C			630.40
RAS/AD/160/AA	1,4-Dioxane	C4H8O2	1.9	22.5	630.40
RAS/AD/161/AA	Ethane	C2H6	2.5	15.5	630.40
RAS/AD/162/AA	Ethylamine	C2H7N	2.68	14	630.40
RAS/AD/163/AA	ethylcyclopentane	C7H14	1.05	6.8	630.40
RAS/AD/164/AA	Ethyl Formate	C3H6O2	2.7	16.5	630.40
RAS/AD/165/AA	Ethylmercaptan	C2H6S			630.40

1.2		Explosive gases		High Quality Poison resistant		Price
		4-20mA Output		Catalytic sensor		
				%v/v	%v/v	LIST
Cod.	Formula	LEL	UEL			Euro
RAS/AD/166/AA	Hydrazine	H4N2				630.40
RAS/AD/167/AA	Hydrogen cyanide	HCN	5.4	46		630.40
RAS/AD/168/AA	Methyl Acetate	C3H6O2	3.2	16		630.40
RAS/AD/169/AA	Methylamine	CH5N	4.2	20.7		630.40
RAS/AD/170/AA	Methylcyclohexane	C7H14	1.16	6.7		630.40
RAS/AD/171/AA	Dimethyl Ether	C2H6O	2.7	32		630.40
RAS/AD/172/AA	Methylethylether	CH3OCH2				630.40
RAS/AD/173/AA	Methyl Formate	C2H4O2	5	23		630.40
RAS/AD/174/AA	Methyl mercaptan	CH3SH				630.40
RAS/AD/175/AA	Methylpropionate	C4H8O2				630.40
RAS/AD/176/AA	Methyl n-propylketone					630.40
RAS/AD/177/AA	Nitromethane	CH3NO2	7.3	63		630.40
RAS/AD/178/AA	n-Nonane	C9H20	0.7	5.6		630.40
RAS/AD/179/AA	n-Octane	C8H18	0.8	6.5		630.40
RAS/AD/180/AA	iso-Pentane	C5H12				630.40
RAS/AD/181/AA	n-Propylamine	C3H9N	2	10.4		630.40
RAS/AD/182/AA	Vinylethylther					630.40
RAS/AD/183/AA	Propylene	C3H6				630.40
RAS/AD/184/AA	Propyleneoxide	C3H6O				630.40
RAS/AD/185/AA	Propyne	C3H4	1.7	16.8		630.40

1.3		Explosive gases		(General Purpose Catalytic sensor)		Price
		Relay Outputs		Catalytic sensor		
				%v/v	%v/v	LIST
Cod.	Formula	LEL	UEL			Euro
RAS/AD/101/CC	Methane	CH4	5	15		383.78
RAS/AD/102/CC	G.P.L.	mix.				383.78
RAS/AD/103/CC	Pentane	C5H12	1.4	8		383.78
RAS/AD/104/CC	Propane	CH3CH2CH3	2	9.5		383.78
RAS/AD/105/CC	Butane	C4H10	1.5	8.5		383.78
RAS/AD/106/CC	Ethyl alcohol					383.78
RAS/AD/107/CC	Propyl Alcohol					383.78
RAS/AD/108/CC	Methyl Alcohol					383.78
RAS/AD/109/CC	n-Butyl Alcohol	CH3(CH2)2 CH2OH	1.4	11.3		383.78
RAS/AD/110/CC	Gasoline vapors	mix.				383.78
RAS/AD/127/CC	Hydrogen	H2	4	75.6		383.78
RAS/AD/140/CC	Ammonia	NH3	15	30.2		383.78
RAS/AD/142/CC	Heptane	C7H16	1.1	6.7		383.78
RAS/AD/143/CC	Exane	CH3(CH2)4CH3	1.2	7.4		383.78
RAS/AD/145/CC	kerosene	mix	0.7	5		383.78
RAS/AD/146/CC	naphtha	mix	0.9	6		383.78

1.4 Explosive gases		High Quality Poison resistant			Price
Relay Outputs		Catalytic sensor			
Cod.	Formula	%v/v	%v/v	LIST Euro	
		LEL	UEL		
RAS/AD/101S/CC	Methane	CH4	5	15	667.58
RAS/AD/102S/CC	G.P.L.	mix.			667.58
RAS/AD/103S/CC	Pentane	C5H12	1.4	8	667.58
RAS/AD/104S/CC	Propane	CH3CH2CH3	2	9.5	667.58
RAS/AD/105S/CC	Butane	C4H10	1.5	8.5	667.58
RAS/AD/106S/CC	Ethyl alcohol				667.58
RAS/AD/107S/CC	Propyl Alcohol				667.58
RAS/AD/108S/CC	Methyl Alcohol				667.58
RAS/AD/109S/CC	n-Butyl Alcohol	CH3(CH2)2 CH2OH	1.4	11.3	667.58
RAS/AD/110S/CC	Gasoline vapors	mix.			667.58
RAS/AD/127S/CC	Hydrogen	H2	4	75.6	667.58
RAS/AD/142S/CC	Heptane	C7H16	1.1	6.7	667.58
RAS/AD/143S/CC	Exane	CH3(CH2)4CH3	1.2	7.4	667.58
RAS/AD/145S/CC	kerosene	mix	0.7	5	667.58
RAS/AD/146S/CC	naphtha	mix	0.9	6	667.58
RAS/AD/111/CC	Acetaldehyde	CH3CHO	4	57	667.58
RAS/AD/112/CC	Acetic Acid	CH3COOH	4	17	667.58
RAS/AD/113/CC	Acetone	(CH3)2CHO	2.15	13	667.58
RAS/AD/114/CC	Acetic Anhydride	(CH3CO)2O	2	10	667.58
RAS/AD/115/CC	Acetylene	C2H2	1.5	100	667.58
RAS/AD/116/CC	n-Butyl Benzene	C4H9OH			667.58
RAS/AD/117/CC	Alkyl Alcohol	C6-C12			667.58
RAS/AD/118/CC	Aniline	C6H5NH2	1.2	11	667.58
RAS/AD/119/CC	Benzene	C6H6	1.2	8	667.58
RAS/AD/120/CC	n-Amyl Alcohol	C5H12O			667.58
RAS/AD/121/CC	Biphenyl	C12H10			667.58
RAS/AD/122/CC	Methylethylketone	C2H5COCH3	1.8	11.5	667.58
RAS/AD/123/CC	1,3-Butadiene	C4H6	1.4	16.3	667.58
RAS/AD/124/CC	iso-Butane	C4H10	1.3	9.8	667.58
RAS/AD/125/CC	Butane-1	C4H8			667.58
RAS/AD/126/CC	Vinyl Chloride	CH2=CHCL	3.8	31	667.58
RAS/AD/128/CC	cisbutene-2	C4H8			667.58
RAS/AD/129/CC	Trans-Butene-2	C4H8			667.58
RAS/AD/130/CC	Cyclohexane	CH2 (CH2)4 CH2	1.2	8.3	667.58
RAS/AD/131/CC	Cyclopropane	CH2 CH2 CH2	2.4	10.4	667.58
RAS/AD/132/CC	iso-Butyl Alcohol	C4H10 O			667.58
RAS/AD/133/CC	Diethyl Ether	(C2 H5)2 O	1.7	36	667.58
RAS/AD/134/CC	Dimethylamine	(CH3)2 HN	2.8	14.4	667.58
RAS/AD/135/CC	Tert-Butyl Alcohol	C4H10 O			667.58
RAS/AD/136/CC	Triethylamine	(CH3CH2)3N	1.2	8	667.58
RAS/AD/137/CC	Ethyl Benzene	C2H5C6H5			667.58
RAS/AD/138/CC	Ethylene	CH2=CH2			667.58
RAS/AD/139/CC	Ethyleneoxide	CH2=CH2 O			667.58
RAS/AD/141/CC	Ammonia	NH3	10.000 ppm		667.58
RAS/AD/144/CC	iso-Propyl ether	C6H14O			667.58
RAS/AD/147/CC	Toluene	C6H5CH3	1.2	7	667.58
RAS/AD/148/CC	trementina	mix	0.8		667.58
RAS/AD/149/CC	Xylene	C6H4(CH3)2	1	7.6	667.58
RAS/AD/150/CC	iso-Butyl Benzene	C10H14			667.58
RAS/AD/151/CC	n-Butyric Acid	C4H8O2			667.58

1.4		Explosive gases		High Quality Poison resistant		Price
		Relay Outputs		Catalytic sensor		
Cod.	Formula	%v/v LEL	%v/v UEL			LIST Euro
RAS/AD/152/CC	Carbon Disulphide CS2	0.6	60			667.58
RAS/AD/153/CC	Carbon Oxysulphide COS					667.58
RAS/AD/154/CC	Cyanogen (CN)2					667.58
RAS/AD/155/CC	Decane C10H22	0.7	5.6			667.58
RAS/AD/156/CC	Diethylamine C4H11N	1.7	10			667.58
RAS/AD/157/CC	2,3-Dimethylpentane C7H16					667.58
RAS/AD/158/CC	2,2-Dimethylpropane C7H16					667.58
RAS/AD/159/CC	Dimethylsulphide (CH3)4C					667.58
RAS/AD/160/CC	1,4-Dioxane C4H8O2	1.9	22.5			667.58
RAS/AD/161/CC	Ethane C2H6	2.5	15.5			667.58
RAS/AD/162/CC	Ethylamine C2H7N	2.68	14			667.58
RAS/AD/163/CC	ethylcyclopentane C7H14	1.05	6.8			667.58
RAS/AD/164/CC	Ethyl Formate C3H6O2	2.7	16.5			667.58
RAS/AD/165/CC	Ethylmercaptan C2H6S					667.58
RAS/AD/166/CC	Hydrazine H4N2					667.58
RAS/AD/167/CC	Hydrogen cyanide HCN	5.4	46			667.58
RAS/AD/168/CC	Methyl Acetate C3H6O2	3.2	16			667.58
RAS/AD/169/CC	Methylamine CH5N	4.2	20.7			667.58
RAS/AD/170/CC	Methylcyclohexane C7H14	1.16	6.7			667.58
RAS/AD/171/CC	Dimethyl Ether C2H6O	2.7	32			667.58
RAS/AD/172/CC	Methylethylether CH3OCH2					667.58
RAS/AD/173/CC	Methyl Formate C2H4O2	5	23			667.58
RAS/AD/174/CC	Methyl mercaptan CH3SH					667.58
RAS/AD/175/CC	Methylpropionate C4H8O2					667.58
RAS/AD/176/CC	Methyl n-propylketone					667.58
RAS/AD/177/CC	Nitromethane CH3NO2	7.3	63			667.58
RAS/AD/178/CC	n-Nonane C9H20	0.7	5.6			667.58
RAS/AD/179/CC	n-Octane C8H18	0.8	6.5			667.58
RAS/AD/180/CC	iso-Pentane C5H12					667.58
RAS/AD/181/CC	n-Propylamine C3H9N	2	10.4			667.58
RAS/AD/182/CC	Vinylethylther					667.58
RAS/AD/183/CC	Propylene C3H6					667.58
RAS/AD/184/CC	Propyleneoxide C3H6O					667.58
RAS/AD/185/CC	Propyne C3H4	1.7	16.8			667.58

1.5		Oxigen (Electrochemical cell)		
Cod.	4-20mA Output	Formula	Std.Range	LIST Euro

RAS/ST/61	Oxygen	O2	0-21%	540.40
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1.6		Toxic gases (MOS Hybrid cell)		
Cod.	4-20mA Output	Formula	Std.Range	LIST Euro

RAS/AD/20/AA	Carbon monoxide	CO	0-500 ppm	407.43
RAS/AD/40/AA	Ammonia	NH3	0-400 ppm	407.43
RAS/AD/69/AA	Hydrogen sulfide	H2S	0-50 ppm	407.43
RAS/AD/79/AA	Carbon Dioxide	CO2	0-20.000 ppm	522.30



1.7		Toxic gases		(MOS Hybrid cell)	LIST
		Relay Outputs			Euro
Cod.		Formula	Std.Range		
RAS/AD/20/CC	Carbon monoxide	CO	0-500 ppm		444.60
RAS/AD/40/CC	Ammonia	NH3	0-400 ppm		444.60
RAS/AD/69/CC	Hydrogen sulfide	H2S	0-50 ppm		444.60
RAS/AD/79/CC	Carbon Dioxide	CO2	0-20.000 ppm		559.45

1.8		Toxic gases		Electrochemical cell	LIST
		4-20mA Output			Euro
Cod.		Formula	Std.Range		
RAS/AD/20E/AA	Carbon monoxide	CO	0-300 ppm		995.28
RAS/AD/40E/AA	Ammonia	NH3	0-100 ppm		1,231.75
RAS/AD/51E/AA	Ozone	O3	0-1 ppm		1,231.75
RAS/AD/63E/AA	Hydrogen cyanide	HCN	0-10 ppm		887.15
RAS/AD/64E/AA	Hydrogen chloride	HCL	0-30 ppm		1,231.75
RAS/AD/65E/AA	Chlorine	CL2	0-10 ppm		968.25
RAS/AD/66E/AA	Nitrogen dioxide	NO2	0-20 ppm		1,015.55
RAS/AD/67E/AA	Nitric oxide	NO	0-250 ppm		1,015.55
RAS/AD/70E/AA	Sulphur dioxide	SO2	0-100 ppm		1,231.75
RAS/AD/80E/AA	Silane/Germane	SiH4/GeH4	0-50 ppm		1,657.43
RAS/AD/90E/AA	Mercaptane	TBM	0-50 mg/m3		1,677.70
RAS/AD/91E/AA	Tetrahydrothiophene THT		0-50 mg/m3		1,677.70

1.9		Toxic gases		Electrochemical cell	LIST
		Relay Outputs			Euro
Cod.		Formula	Std.Range		
RAS/AD/20E/CC	Carbon monoxide	CO	0-300 ppm		1,032.43
RAS/AD/40E/CC	Ammonia	NH3	0-100 ppm		1,268.93
RAS/AD/51E/CC	Ozone	O3	0-1 ppm		1,268.93
RAS/AD/63E/CC	Hydrogen cyanide	HCN	0-10 ppm		924.33
RAS/AD/64E/CC	Hydrogen chloride	HCL	0-30 ppm		1,268.93
RAS/AD/65E/CC	Chlorine	CL2	0-10 ppm		1,005.40
RAS/AD/66E/CC	Nitrogen dioxide	NO2	0-20 ppm		1,052.70

1.9		Toxic gases		Electrochemical cell	LIST
		Relay Outputs			Euro
Cod.		Formula	Std.Range		
RAS/AD/67E/CC	Nitric oxide	NO	0-250 ppm		1,052.70
RAS/AD/70E/CC	Sulphur dioxide	SO2	0-100 ppm		1,268.93
RAS/AD/80E/CC	Silane/Germane	SiH4/GeH4	0-50 ppm		1,694.60
RAS/AD/90E/CC	Mercaptane	TBM	0-50 mg/m3		1,714.88
RAS/AD/91E/CC	Tetrahydrothiophene THT		0-50 mg/m3		1,714.88

## GAS TRANSMITTERS

enose® technology

**2. enose® - RAS/DY/**

Microprocessor based gas detector  
 designed to measure gases concentration with  
 different range (%L.E.L. or ppm)  
 LCD Display 2x8, 3 Relays  
 EEX-d IIC T6 certified      ATEX notified

2.1		Explosive gases		(General Purpose Catalytic sensor)		Price
		4-20mA Output		Catalytic sensor		
Cod.	Formula	%v/v		LIST Euro		
		LEL	UEL			
RAS/DY/101/AA	Methane	CH4	5	15	628.53	
RAS/DY/102/AA	G.P.L.	mix.			628.53	
RAS/DY/103/AA	Pentane	C5H12	1.4	8	628.53	
RAS/DY/104/AA	Propane	CH3CH2CH3	2	9.5	628.53	
RAS/DY/105/AA	Butane	C4H10	1.5	8.5	628.53	
RAS/DY/106/AA	Ethyl Alcohol				628.53	
RAS/DY/107/AA	Propyl Alcohol				628.53	
RAS/DY/108/AA	Methyl Alcohol				628.53	
RAS/DY/109/AA	n-utyl Alcohol	CH3(CH2)2 CH2OH	1.4	11.3	628.53	
RAS/DY/110/AA	Vapori di benzina	mix.			628.53	
RAS/DY/127/AA	Hydrogen	H2	4	75.6	628.53	
RAS/DY/140/AA	Ammonia	NH3	15	30.2	628.53	
RAS/DY/142/AA	Heptane	C7H16	1.1	6.7	628.53	
RAS/DY/143/AA	Hexane	CH3(CH2)4CH3	1.2	7.4	628.53	
RAS/DY/145/AA	kerosene	mix	0.7	5	628.53	
RAS/DY/146/AA	naphtha	mix	0.9	6	628.53	

2.2		Explosive gases		High Quality Poison resistant		Price
		4-20mA Output		Catalytic sensor		
Cod.	Formula	%v/v		LIST Euro		
		LEL	UEL			
RAS/DY/101S/AA	Methane	CH4	5	15	912.30	
RAS/DY/102S/AA	G.P.L.	mix.			912.30	
RAS/DY/103S/AA	Pentane	C5H12	1.4	8	912.30	
RAS/DY/104S/AA	Propane	CH3CH2CH3	2	9.5	912.30	
RAS/DY/105S/AA	Butane	C4H10	1.5	8.5	912.30	
RAS/DY/106S/AA	Ethyl Alcohol				912.30	
RAS/DY/107S/AA	Propyl Alcohol				912.30	
RAS/DY/108S/AA	Methyl Alcohol				912.30	
RAS/DY/109S/AA	n-utyl Alcohol	CH3(CH2)2 CH2OH	1.4	11.3	912.30	
RAS/DY/110S/AA	Vapori di benzina	mix.			912.30	
RAS/DY/127S/AA	Hydrogen	H2	4	75.6	912.30	
RAS/DY/142S/AA	Heptane	C7H16	1.1	6.7	912.30	
RAS/DY/143S/AA	Hexane	CH3(CH2)4CH3	1.2	7.4	912.30	
RAS/DY/145S/AA	kerosene	mix	0.7	5	912.30	
RAS/DY/146S/AA	naphtha	mix	0.9	6	912.30	

2.2 Cod.	Explosive gases 4-20mA Output		High Quality Poison resistant Catalytic sensor		Price
	Formula	LEL	%v/v		LIST Euro
			UEL		
RAS/DY/111/AA	Acetaldehyde	CH3CHO	4	57	912.30
RAS/DY/112/AA	Acetic Acid	CH3COOH	4	17	912.30
RAS/DY/113/AA	Acetone	(CH3)2CHO	2.15	13	912.30
RAS/DY/114/AA	Acetic Anhydride	(CH3CO)2O	2	10	912.30
RAS/DY/115/AA	Acetylene	C2H2	1.5	100	912.30
RAS/DY/116/AA	n-Butyl Benzene	C4H9OH			912.30
RAS/DY/117/AA	Alkyl Alcohol	C6-C12			912.30
RAS/DY/118/AA	Aniline	C6H5NH2	1.2	11	912.30
RAS/DY/119/AA	Benzene	C6H6	1.2	8	912.30
RAS/DY/120/AA	n-Amyl Alcohol	C5H12O			912.30
RAS/DY/121/AA	Biphenyl	C12H10			912.30
RAS/DY/122/AA	Methylethylketone	C2H5COCH3	1.8	11.5	912.30
RAS/DY/123/AA	1,3-Butadiene	C4H6	1.4	16.3	912.30
RAS/DY/124/AA	iso-Butane	C4H10	1.3	9.8	912.30
RAS/DY/125/AA	Butane-1	C4H8			912.30
RAS/DY/126/AA	Vinyl Chloride	CH2=CHCL	3.8	31	912.30
RAS/DY/128/AA	cisbutene-2	C4H8			912.30
RAS/DY/129/AA	Trans-Butene-2	C4H8			912.30
RAS/DY/130/AA	Cyclohexane	CH2 (CH2)4 CH2	1.2	8.3	912.30
RAS/DY/131/AA	Cyclopropane	CH2 CH2 CH2	2.4	10.4	912.30
RAS/DY/132/AA	iso-Butyl Alcohol	C4H10 O			912.30
RAS/DY/133/AA	Diethyl Ether	(C2 H5)2 O	1.7	36	912.30
RAS/DY/134/AA	Dimethylamine	(CH3)2 HN	2.8	14.4	912.30
RAS/DY/135/AA	Tert-Butyl Alcohol	C4H10 O			912.30
RAS/DY/136/AA	Triethylamine	(CH3CH2)3N	1.2	8	912.30
RAS/DY/137/AA	Ethyl Benzene	C2H5C6H5			912.30
RAS/DY/138/AA	Ethylene	CH2=CH2			912.30
RAS/DY/139/AA	Ethyleneoxide	CH2=CH2 O			912.30
RAS/DY/141/AA	Ammonia	NH3	10.000 ppm		912.30
RAS/DY/144/AA	iso-Propyl ether	C6H14O			912.30
RAS/DY/147/AA	Toluene	C6H5CH3	1.2	7	912.30
RAS/DY/148/AA	trementina	mix	0.8		912.30
RAS/DY/149/AA	Xylene	C6H4(CH3)2	1	7.6	912.30
RAS/DY/150/AA	iso-Butyl Benzene	C10H14			912.30
RAS/DY/151/AA	n-Butyric Acid	C4H8O2			912.30
RAS/DY/152/AA	Carbon Disulphide	CS2	0.6	60	912.30
RAS/DY/153/AA	Carbon Oxyulphide	COS			912.30
RAS/DY/154/AA	Cyanogen	(CN)2			912.30
RAS/DY/155/AA	Decane	C10H22	0.7	5.6	912.30
RAS/DY/156/AA	Diethylamine	C4H11N	1.7	10	912.30
RAS/DY/157/AA	2,3-Dimethylpentane	C7H16			912.30
RAS/DY/158/AA	2,2-Dimethylpropane	C7H16			912.30
RAS/DY/159/AA	Dimethylsulphide	(CH3)4C			912.30
RAS/DY/160/AA	1,4-Dioxane	C4H8O2	1.9	22.5	912.30
RAS/DY/161/AA	Ethane	C2H6	2.5	15.5	912.30
RAS/DY/162/AA	Ethylamine	C2H7N	2.68	14	912.30
RAS/DY/163/AA	ethylcyclopentane	C7H14	1.05	6.8	912.30
RAS/DY/164/AA	Ethyl Formate	C3H6O2	2.7	16.5	912.30
RAS/DY/165/AA	Ethylmercaptan	C2H6S			912.30
RAS/DY/166/AA	Hydrazine	H4N2			912.30
RAS/DY/167/AA	Hydrogen cyanide	HCN	5.4	46	912.30

2.2		Explosive gases		High Quality Poison resistant		Price
		4-20mA Output		Catalytic sensor		
Cod.		Formula	%v/v LEL	%v/v UEL		LIST Euro
RAS/DY/168/AA	Methyl Acetate	C3H6O2	3.2	16		912.30
RAS/DY/169/AA	Methylamine	CH5N	4.2	20.7		912.30
RAS/DY/170/AA	Methylcyclohexane	C7H14	1.16	6.7		912.30
RAS/DY/171/AA	Dimethyl Ether	C2H6O	2.7	32		912.30
RAS/DY/172/AA	Methylethylether	CH3OCH2				912.30
RAS/DY/173/AA	Methyl Formate	C2H4O2	5	23		912.30
RAS/DY/174/AA	Methyl mercaptan	CH3SH				912.30
RAS/DY/175/AA	Methylpropionate	C4H8O2				912.30
RAS/DY/176/AA	Methyl n-propylketone					912.30
RAS/DY/177/AA	Nitromethane	CH3NO2	7.3	63		912.30
RAS/DY/178/AA	n-Nonane	C9H20	0.7	5.6		912.30
RAS/DY/179/AA	n-Octane	C8H18	0.8	6.5		912.30
RAS/DY/180/AA	iso-Pentane	C5H12				912.30
RAS/DY/181/AA	n-Propylamine	C3H9N	2	10.4		912.30
RAS/DY/182/AA	Vinylethylther					912.30
RAS/DY/183/AA	Propylene	C3H6				912.30
RAS/DY/184/AA	Propyleneoxide	C3H6O				912.30
RAS/DY/185/AA	Propyne	C3H4	1.7	16.8		912.30

2.3		Explosive gases		(General Purpose Catalytic sensor)		Price
		Relay Outputs And 4-20 mA		Catalytic sensor		
Cod.		Formula	%v/v LEL	%v/v UEL		LIST Euro
RAS/DY/101/CC	Methane	CH4	5	15		665.68
RAS/DY/102/CC	G.P.L.	mix.				665.68
RAS/DY/103/CC	Pentane	C5H12	1.4	8		665.68
RAS/DY/104/CC	Propane	CH3CH2CH3	2	9.5		665.68
RAS/DY/105/CC	Butane	C4H10	1.5	8.5		665.68
RAS/DY/106/CC	Ethyl Alcohol					665.68
RAS/DY/107/CC	Propyl Alcohol					665.68
RAS/DY/108/CC	Methyl Alcohol					665.68
RAS/DY/109/CC	n-utyl Alcohol	CH3(CH2)2 CH2OH	1.4	11.3		665.68
RAS/DY/110/CC	Vapori di benzina	mix.				665.68
RAS/DY/127/CC	Hydrogen	H2	4	75.6		665.68
RAS/DY/140/CC	Ammonia	NH3	15	30.2		665.68
RAS/DY/142/CC	Heptane	C7H16	1.1	6.7		665.68
RAS/DY/143/CC	Hexane	CH3(CH2)4CH3	1.2	7.4		665.68
RAS/DY/145/CC	kerosene	mix	0.7	5		665.68
RAS/DY/146/CC	naphtha	mix	0.9	6		665.68

2.4 Cod.	Explosive gases		High Quality Poison resistant		Price
	Relay Outputs And 4-20 mA	Formula	Catalytic sensor		LIST Euro
			%v/v LEL	%v/v UEL	
RAS/DY/101S/CC	Methane	CH4	5	15	949.45
RAS/DY/102S/CC	G.P.L.	mix.			949.45
RAS/DY/103S/CC	Pentane	C5H12	1.4	8	949.45
RAS/DY/104S/CC	Propane	CH3CH2CH3	2	9.5	949.45
RAS/DY/105S/CC	Butane	C4H10	1.5	8.5	949.45
RAS/DY/106S/CC	Ethyl Alcohol				949.45
RAS/DY/107S/CC	Propyl Alcohol				949.45
RAS/DY/108S/CC	Methyl Alcohol				949.45
RAS/DY/109S/CC	n-utyl Alcohol	CH3(CH2)2 CH2OH	1.4	11.3	949.45
RAS/DY/110S/CC	Vapori di benzina	mix.			949.45
RAS/DY/127S/CC	Hydrogen	H2	4	75.6	949.45
RAS/DY/142S/CC	Heptane	C7H16	1.1	6.7	949.45
RAS/DY/143S/CC	Hexane	CH3(CH2)4CH3	1.2	7.4	949.45
RAS/DY/145S/CC	kerosene	mix	0.7	5	949.45
RAS/DY/146S/CC	naphtha	mix	0.9	6	949.45
RAS/DY/111/CC	Acetaldehyde	CH3CHO	4	57	949.45
RAS/DY/112/CC	Acetic Acid	CH3COOH	4	17	949.45
RAS/DY/113/CC	Acetone	(CH3)2CHO	2.15	13	949.45
RAS/DY/114/CC	Acetic Anhydride	(CH3CO)2O	2	10	949.45
RAS/DY/115/CC	Acetylene	C2H2	1.5	100	949.45
RAS/DY/116/CC	n-Butyl Benzene	C4H9OH			949.45
RAS/DY/117/CC	Alkyl Alcohol	C6-C12			949.45
RAS/DY/118/CC	Aniline	C6H5NH2	1.2	11	949.45
RAS/DY/119/CC	Benzene	C6H6	1.2	8	949.45
RAS/DY/120/CC	n-Amyl Alcohol	C5H12O			949.45
RAS/DY/121/CC	Biphenyl	C12H10			949.45
RAS/DY/122/CC	Methylethylketone	C2H5COCH3	1.8	11.5	949.45
RAS/DY/123/CC	1,3-Butadiene	C4H6	1.4	16.3	949.45
RAS/DY/124/CC	iso-Butane	C4H10	1.3	9.8	949.45
RAS/DY/125/CC	Butane-1	C4H8			949.45
RAS/DY/126/CC	Vinyl Chloride	CH2=CHCL	3.8	31	949.45
RAS/DY/128/CC	cisbutene-2	C4H8			949.45
RAS/DY/129/CC	Trans-Butene-2	C4H8			949.45
RAS/DY/130/CC	Cyclohexane	CH2 (CH2)4 CH2	1.2	8.3	949.45
RAS/DY/131/CC	Cyclopropane	CH2 CH2 CH2	2.4	10.4	949.45
RAS/DY/132/CC	iso-Butyl Alcohol	C4H10 O			949.45
RAS/DY/133/CC	Diethyl Ether	(C2 H5)2 O	1.7	36	949.45
RAS/DY/134/CC	Dimethylamine	(CH3)2 HN	2.8	14.4	949.45
RAS/DY/135/CC	Tert-Butyl Alcohol	C4H10 O			949.45
RAS/DY/136/CC	Triethylamine	(CH3CH2)3N	1.2	8	949.45
RAS/DY/137/CC	Ethyl Benzene	C2H5C6H5			949.45
RAS/DY/138/CC	Ethylene	CH2=CH2			949.45
RAS/DY/139/CC	Ethyleneoxide	CH2=CH2 O			949.45
RAS/DY/141/CC	Ammonia	NH3	10.000 ppm		949.45
RAS/DY/144/CC	iso-Propyl ether	C6H14O			949.45
RAS/DY/147/CC	Toluene	C6H5CH3	1.2	7	949.45
RAS/DY/148/CC	trementina	mix	0.8		949.45
RAS/DY/149/CC	Xylene	C6H4(CH3)2	1	7.6	949.45

2.4		Explosive gases		High Quality Poison resistant		Price
Cod.	Relay Outputs And 4-20 mA	Formula	Catalytic sensor		LIST Euro	
			%v/v LEL	%v/v UEL		
RAS/DY/150/CC	iso-Butyl Benzene	C10H14			949.45	
RAS/DY/151/CC	n-Butyric Acid	C4H8O2			949.45	
RAS/DY/152/CC	Carbon Disulphide	CS2	0.6	60	949.45	
RAS/DY/153/CC	Carbon Oxysulphide	COS			949.45	
RAS/DY/154/CC	Cyanogen	(CN)2			949.45	
RAS/DY/155/CC	Decane	C10H22	0.7	5.6	949.45	
RAS/DY/156/CC	Diethylamine	C4H11N	1.7	10	949.45	
RAS/DY/157/CC	2,3-Dimethylpentane	C7H16			949.45	
RAS/DY/158/CC	2,2-Dimethylpropane	C7H16			949.45	
RAS/DY/159/CC	Dimethylsulphide	(CH3)4C			949.45	
RAS/DY/160/CC	1,4-Dioxane	C4H8O2	1.9	22.5	949.45	
RAS/DY/161/CC	Ethane	C2H6	2.5	15.5	949.45	
RAS/DY/162/CC	Ethylamine	C2H7N	2.68	14	949.45	
RAS/DY/163/CC	ethylcyclopentane	C7H14	1.05	6.8	949.45	
RAS/DY/164/CC	Ethyl Formate	C3H6O2	2.7	16.5	949.45	
RAS/DY/165/CC	Ethylmercaptan	C2H6S			949.45	
RAS/DY/166/CC	Hydrazine	H4N2			949.45	
RAS/DY/167/CC	Hydrogen cyanide	HCN	5.4	46	949.45	
RAS/DY/168/CC	Methyl Acetate	C3H6O2	3.2	16	949.45	
RAS/DY/169/CC	Methylamine	CH5N	4.2	20.7	949.45	
RAS/DY/170/CC	Methylcyclohexane	C7H14	1.16	6.7	949.45	
RAS/DY/171/CC	Dimethyl Ether	C2H6O	2.7	32	949.45	
RAS/DY/172/CC	Methylethylether	CH3OCH2			949.45	
RAS/DY/173/CC	Methyl Formate	C2H4O2	5	23	949.45	
RAS/DY/174/CC	Methyl mercaptan	CH3SH			949.45	
RAS/DY/175/CC	Methylpropionate	C4H8O2			949.45	
RAS/DY/176/CC	Methyl n-propylketone				949.45	
RAS/DY/177/CC	Nitromethane	CH3NO2	7.3	63	949.45	
RAS/DY/178/CC	n-Nonane	C9H20	0.7	5.6	949.45	
RAS/DY/179/CC	n-Octane	C8H18	0.8	6.5	949.45	
RAS/DY/180/CC	iso-Pentane	C5H12			949.45	
RAS/DY/181/CC	n-Propylamine	C3H9N	2	10.4	949.45	
RAS/DY/182/CC	Vinylethylther				949.45	
RAS/DY/183/CC	Propylene	C3H6			949.45	
RAS/DY/184/CC	Propyleneoxide	C3H6O			949.45	
RAS/DY/185/CC	Propyne	C3H4	1.7	16.8	949.45	

2.5		Oxigen (Electrochemical cell)		LIST
Cod.	4-20mA Output	Formula	Std.Range	Euro
				RAS/DY/61

2.6		Toxic gases		(MOS Hybrid cell)	LIST
4-20mA Output					Euro
Cod.		Formula	Std.Range		
RAS/DY/20/AA	Carbon monoxide	CO	0-500 ppm		689.33
RAS/DY/40/AA	Ammonia	NH3	400-1.000 ppm		689.33
RAS/DY/69/AA	Hydrogen sulfide	H2S	0-50 ppm		689.33
RAS/DY/79/AA	Carbon Dioxide	CO2	0-20.000 ppm		798.10

2.7		Toxic gases		(MOS Hybrid cell)	LIST
Relay Outputs					Euro
And 4-20 mA					
Cod.		Formula	Std.Range		
RAS/DY/20/CC	Carbon monoxide	CO	0-500 ppm		726.25
RAS/DY/40/CC	Ammonia	NH3	400-1.000 ppm		726.25
RAS/DY/69/CC	Hydrogen sulfide	H2S	0-50 ppm		726.25
RAS/DY/79/CC	Carbon Dioxide	CO2	0-20.000 ppm		835.28

2.8		Toxic gases		Electrochemical cell	LIST
4-20mA Output					Euro
Cod.		Formula	Std.Range		
RAS/DY/20E/AA	Carbon monoxide	CO	0-300 ppm		1,277.15
RAS/DY/40E/AA	Ammonia	NH3	0-100 / 0-1.000ppm		1,513.65
RAS/DY/51E/AA	Ozone	O3	0-1 ppm		1,513.65
RAS/DY/63E/AA	Hydrogen cyanide	HCN	0-10 ppm		1,169.05
RAS/DY/64E/AA	Hydrogen chloride	HCL	0-30 ppm		1,513.65
RAS/DY/65E/AA	Chlorine	CL2	0-10 ppm		1,250.13
RAS/DY/66E/AA	Nitrogen dioxide	NO2	0-20 ppm		1,297.43
RAS/DY/67E/AA	Nitric oxide	NO	0-250 ppm		1,297.43
RAS/DY/70E/AA	Sulphur dioxide	SO2	0-100 ppm		1,513.65
RAS/DY/80E/AA	Silane/Germane	SiH4/GeH4	0-50 ppm		1,939.33
RAS/DY/90E/AA	Mercaptane	TBM	0-50 mg/m3		1,959.60
RAS/DY/91E/AA	Tetrahydrothiophene THT		0-50 mg/m3		1,959.60

2.9		Toxic gases		Electrochemical cell	LIST
Relay Outputs					Euro
And 4-20 mA					
Cod.		Formula	Std.Range		
RAS/DY/20E/CC	Carbon monoxide	CO	0-300 ppm		1,314.33
RAS/DY/40E/CC	Ammonia	NH3	0-100 / 0-1.000ppm		1,550.80
RAS/DY/51E/CC	Ozone	O3	0-1 ppm		1,550.80
RAS/DY/63E/CC	Hydrogen cyanide	HCN	0-10 ppm		1,206.23
RAS/DY/64E/CC	Hydrogen chloride	HCL	0-30 ppm		1,550.80
RAS/DY/65E/CC	Chlorine	CL2	0-10 ppm		1,287.30
RAS/DY/66E/CC	Nitrogen dioxide	NO2	0-20 ppm		1,334.60
RAS/DY/67E/CC	Nitric oxide	NO	0-250 ppm		1,334.60
RAS/DY/70E/CC	Sulphur dioxide	SO2	0-100 ppm		1,550.80
RAS/DY/80E/CC	Silane/Germane	SiH4/GeH4	0-50 ppm		1,976.48
RAS/DY/90E/CC	Mercaptane	TBM	0-50 mg/m3		1,996.75
RAS/DY/91E/CC	Tetrahydrothiophene THT		0-50 mg/m3		1,996.75

### 3. enose® - DUST

enose® technology

Micropocessor based gas detector  
designed to measure gases concentration with  
different range (%L.E.L. or ppm)  
Aluminium body IP65



3.1 Cod.	Explosive gases		(General Purpose Catalytic sensor)		Price
	4-20 mA Output		Catalytic sensor		LIST
	Formula		%v/v LEL	%v/v UEL	Euro
DU/101/AA	Methane	CH <sub>4</sub>	5	15	270.13
DU/102/AA	G.P.L.	mix.			270.13
DU/103/AA	Pentane	C <sub>5</sub> H <sub>12</sub>	1.4	8	270.13
DU/104/AA	Propane	CH <sub>3</sub> CH <sub>2</sub> CH <sub>3</sub>	2	9.5	270.13
DU/105/AA	Butane	C <sub>4</sub> H <sub>10</sub>	1.5	8.5	270.13
DU/106/AA	Ethyl Alcohol				270.13
DU/107/AA	Propyl Alcohol				270.13
DU/108/AA	Methyl Alcohol				270.13
DU/109/AA	n-Butyl Alcohol	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>2</sub> CH <sub>2</sub> OH	1.4	11.3	270.13
DU/110/AA	Vapori di benzina	mix.			270.13
DU/127/AA	Hydrogen	H <sub>2</sub>	4	75.6	270.13
DU/140/AA	Ammonia	NH <sub>3</sub>	15	30.2	270.13

3.2 Cod.	Explosive gases		High Quality Poison resistant		Price
	4-20 mA Output		Catalytic sensor		LIST
	Formula		%v/v LEL	%v/v UEL	Euro
DU/101S/AA	Methane	CH <sub>4</sub>	5	15	553.93
DU/102S/AA	G.P.L.	mix.			553.93
DU/103S/AA	Pentane	C <sub>5</sub> H <sub>12</sub>	1.4	8	553.93
DU/104S/AA	Propane	CH <sub>3</sub> CH <sub>2</sub> CH <sub>3</sub>	2	9.5	553.93
DU/105S/AA	Butane	C <sub>4</sub> H <sub>10</sub>	1.5	8.5	553.93
DU/106S/AA	Ethyl Alcohol				553.93
DU/107S/AA	Propyl Alcohol				553.93
DU/108S/AA	Methyl Alcohol				553.93
DU/109S/AA	n-Butyl Alcohol	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>2</sub> CH <sub>2</sub> OH	1.4	11.3	553.93
DU/110S/AA	Vapori di benzina	mix.			553.93
DU/127S/AA	Hydrogen	H <sub>2</sub>	4	75.6	553.93
DU/111/AA	Acetaldehyde	CH <sub>3</sub> CHO	4	57	553.93
DU/112/AA	Acetic Acid	CH <sub>3</sub> COOH	4	17	553.93
DU/113/AA	Acetone	(CH <sub>3</sub> ) <sub>2</sub> CHO	2.15	13	553.93
DU/114/AA	Acetic Anhydride	(CH <sub>3</sub> CO) <sub>2</sub> O	2	10	553.93
DU/115/AA	Acetylene	C <sub>2</sub> H <sub>2</sub>	1.5	100	553.93
DU/116/AA	n-Butyl Benzene	C <sub>4</sub> H <sub>9</sub> OH			553.93
DU/117/AA	Alkyl Alcohol	C <sub>6</sub> -C <sub>12</sub>			553.93
DU/118/AA	Aniline	C <sub>6</sub> H <sub>5</sub> NH <sub>2</sub>	1.2	11	553.93
DU/119/AA	Benzene	C <sub>6</sub> H <sub>6</sub>	1.2	8	553.93



3.2 Cod.	Explosive gases 4-20 mA Output		High Quality Poison resistant Catalytic sensor		Price
	Formula	LEL	UEL	LIST Euro	
					%v/v
DU/120/AA	n-Amyl Alcohol	C5H12O			553.93
DU/121/AA	Biphenyl	C12H10			553.93
DU/122/AA	Methylethylketone	C2H5COCH3	1.8	11.5	553.93
DU/123/AA	1,3-Butadiene	C4H6	1.4	16.3	553.93
DU/124/AA	iso-Butane	C4H10	1.3	9.8	553.93
DU/125/AA	Butane-1	C4H8			553.93
DU/126/AA	Vinyl Chloride	CH2=CHCL	3.8	31	553.93
DU/128/AA	cisbutene-2	C4H8			553.93
DU/129/AA	Trans-Butene-2	C4H8			553.93
DU/130/AA	Cyclohexane	CH2 (CH2)4 CH2	1.2	8.3	553.93
DU/131/AA	Cyclopropane	CH2 CH2 CH2	2.4	10.4	553.93
DU/132/AA	iso-Butyl Alcohol	C4H10 O			553.93
DU/133/AA	Diethyl Ether	(C2 H5)2 O	1.7	36	553.93
DU/134/AA	Dimethylamine	(CH3)2 HN	2.8	14.4	553.93
DU/135/AA	Tert-Butyl Alcohol	C4H10 O			553.93
DU/136/AA	Triethylamine	(CH3CH2)3N	1.2	8	553.93
DU/137/AA	Ethyl Benzene	C2H5C6H5			553.93
DU/138/AA	Ethylene	CH2=CH2			553.93
DU/139/AA	Ethyleneoxide	CH2=CH2 O			553.93
DU/141/AA	Ammonia	NH3	10.000 ppm		553.93
DU/144/AA	iso-Propyl ether	C6H14O			553.93
DU/147/AA	Toluene	C6H5CH3	1.2	7	553.93
DU/148/AA	trementina	mix	0.8		553.93
DU/149/AA	Xylene	C6H4(CH3)2	1	7.6	553.93
DU/150/AA	iso-Butyl Benzene	C10H14			553.93
DU/151/AA	n-Butyric Acid	C4H8O2			553.93
DU/152/AA	Carbon Disulphide	CS2	0.6	60	553.93
DU/153/AA	Carbon Oxyulphide	COS			553.93
DU/154/AA	Cyanogen	(CN)2			553.93
DU/155/AA	Decane	C10H22	0.7	5.6	553.93
DU/156/AA	Diethylamine	C4H11N	1.7	10	553.93
DU/157/AA	2,3-Dimethylpentane	C7H16			553.93
DU/158/AA	2,2-Dimethylpropane	C7H16			553.93
DU/159/AA	Dimethylsulphide	(CH3)4C			553.93
DU/160/AA	1,4-Dioxane	C4H8O2	1.9	22.5	553.93
DU/161/AA	Ethane	C2H6	2.5	15.5	553.93
DU/162/AA	Ethylamine	C2H7N	2.68	14	553.93
DU/163/AA	ethylcyclopentane	C7H14	1.05	6.8	553.93
DU/164/AA	Ethyl Formate	C3H6O2	2.7	16.5	553.93
DU/165/AA	Ethylmercaptan	C2H6S			553.93
DU/166/AA	Hydrazine	H4N2			553.93
DU/167/AA	Hydrogen cyanide	HCN	5.4	46	553.93
DU/168/AA	Methyl Acetate	C3H6O2	3.2	16	553.93
DU/169/AA	Methylamine	CH5N	4.2	20.7	553.93
DU/170/AA	Methylcyclohexane	C7H14	1.16	6.7	553.93
DU/171/AA	Dimethyl Ether	C2H6O	2.7	32	553.93
DU/172/AA	Methylethylether	CH3OCH2			553.93
DU/173/AA	Methyl Formate	C2H4O2	5	23	553.93
DU/174/AA	Methyl mercaptan	CH3SH			553.93
DU/175/AA	Methylpropionate	C4H8O2			553.93

3.2		Explosive gases		High Quality Poison resistant		Price
		4-20 mA Output		Catalytic sensor		
Cod.	Formula	%v/v LEL	%v/v UEL	LIST Euro		
DU/176/AA	Methyl n-propylketone			553.93		
DU/177/AA	Nitromethane CH <sub>3</sub> NO <sub>2</sub>	7.3	63	553.93		
DU/178/AA	n-Nonane C <sub>9</sub> H <sub>20</sub>	0.7	5.6	553.93		
DU/179/AA	n-Octane C <sub>8</sub> H <sub>18</sub>	0.8	6.5	553.93		
DU/180/AA	iso-Pentane C <sub>5</sub> H <sub>12</sub>			553.93		
DU/181/AA	n-Propylamine C <sub>3</sub> H <sub>9</sub> N	2	10.4	553.93		
DU/182/AA	Vinylethylther			553.93		
DU/183/AA	Propylene C <sub>3</sub> H <sub>6</sub>			553.93		
DU/184/AA	Propyleneoxide C <sub>3</sub> H <sub>6</sub> O			553.93		
DU/185/AA	Propyne C <sub>3</sub> H <sub>4</sub>	1.7	16.8	553.93		

3.3		Explosive gases		(General Purpose Catalytic sensor)		Price
		Relay Outputs		Catalytic sensor		
Cod.	Formula	%v/v LEL	%v/v UEL	LIST Euro		
DU/101/CC	Methane CH <sub>4</sub>	5	15	307.30		
DU/102/CC	G.P.L. mix.			307.30		
DU/103/CC	Pentane C <sub>5</sub> H <sub>12</sub>	1.4	8	307.30		
DU/104/CC	Propane CH <sub>3</sub> CH <sub>2</sub> CH <sub>3</sub>	2	9.5	307.30		
DU/105/CC	Butane C <sub>4</sub> H <sub>10</sub>	1.5	8.5	307.30		
DU/106/CC	Ethyl Alcohol			307.30		
DU/107/CC	Propyl Alcohol			307.30		
DU/108/CC	Methyl Alcohol			307.30		
DU/109/CC	n-Butyl Alcohol CH <sub>3</sub> (CH <sub>2</sub> ) <sub>2</sub> CH <sub>2</sub> OH	1.4	11.3	307.30		
DU/110/CC	Vapori di benzina mix.			307.30		
DU/127/CC	Hydrogen H <sub>2</sub>	4	75.6	307.30		
DU/140/CC	Ammonia NH <sub>3</sub>	15	30.2	307.30		

3.4		Explosive gases		High Quality Poison resistant		Price
		Relay Outputs		Catalytic sensor		
Cod.	Formula	%v/v LEL	%v/v UEL	LIST Euro		
DU/101S/CC	Methane CH <sub>4</sub>	5	15	591.08		
DU/102S/CC	G.P.L. mix.			591.08		
DU/103S/CC	Pentane C <sub>5</sub> H <sub>12</sub>	1.4	8	591.08		
DU/104S/CC	Propane CH <sub>3</sub> CH <sub>2</sub> CH <sub>3</sub>	2	9.5	591.08		
DU/105S/CC	Butane C <sub>4</sub> H <sub>10</sub>	1.5	8.5	591.08		
DU/106S/CC	Ethyl Alcohol			591.08		
DU/107S/CC	Propyl Alcohol			591.08		
DU/108S/CC	Methyl Alcohol			591.08		
DU/109S/CC	n-Butyl Alcohol CH <sub>3</sub> (CH <sub>2</sub> ) <sub>2</sub> CH <sub>2</sub> OH	1.4	11.3	591.08		
DU/110S/CC	Vapori di benzina mix.			591.08		
DU/127S/CC	Hydrogen H <sub>2</sub>	4	75.6	591.08		

3.4 Cod.	Explosive gases Relay Outputs		High Quality Poison resistant Catalytic sensor		Price
	Formula	%v/v LEL	%v/v UEL	LIST Euro	
DU/111/CC	Acetaldehyde	CH3CHO	4	57	591.08
DU/112/CC	Acetic Acid	CH3COOH	4	17	591.08
DU/113/CC	Acetone	(CH3)2CHO	2.15	13	591.08
DU/114/CC	Acetic Anhydride	(CH3CO)2O	2	10	591.08
DU/115/CC	Acetylene	C2H2	1.5	100	591.08
DU/116/CC	n-Butyl Benzene	C4H9OH			591.08
DU/117/CC	Alkyl Alcohol	C6-C12			591.08
DU/118/CC	Aniline	C6H5NH2	1.2	11	591.08
DU/119/CC	Benzene	C6H6	1.2	8	591.08
DU/120/CC	n-Amyl Alcohol	C5H12O			591.08
DU/121/CC	Biphenyl	C12H10			591.08
DU/122/CC	Methylethylketone	C2H5COCH3	1.8	11.5	591.08
DU/123/CC	1,3-Butadiene	C4H6	1.4	16.3	591.08
DU/124/CC	iso-Butane	C4H10	1.3	9.8	591.08
DU/125/CC	Butane-1	C4H8			591.08
DU/126/CC	Vinyl Chloride	CH2=CHCL	3.8	31	591.08
DU/128/CC	cisbutene-2	C4H8			591.08
DU/129/CC	Trans-Butene-2	C4H8			591.08
DU/130/CC	Cyclohexane	CH2 (CH2)4 CH2	1.2	8.3	591.08
DU/131/CC	Cyclopropane	CH2 CH2 CH2	2.4	10.4	591.08
DU/132/CC	iso-Butyl Alcohol	C4H10 O			591.08
DU/133/CC	Diethyl Ether	(C2 H5)2 O	1.7	36	591.08
DU/134/CC	Dimethylamine	(CH3)2 HN	2.8	14.4	591.08
DU/135/CC	Tert-Butyl Alcohol	C4H10 O			591.08
DU/136/CC	Triethylamine	(CH3CH2)3N	1.2	8	591.08
DU/137/CC	Ethyl Benzene	C2H5C6H5			591.08
DU/138/CC	Ethylene	CH2=CH2			591.08
DU/139/CC	Ethyleneoxide	CH2=CH2 O			591.08
DU/141/CC	Ammonia	NH3	10.000 ppm		591.08
DU/144/CC	iso-Propyl ether	C6H14O			591.08
DU/147/CC	Toluene	C6H5CH3	1.2	7	591.08
DU/148/CC	trementina	mix	0.8		591.08
DU/149/CC	Xylene	C6H4(CH3)2	1	7.6	591.08
DU/150/CC	iso-Butyl Benzene	C10H14			591.08
DU/151/CC	n-Butyric Acid	C4H8O2			591.08
DU/152/CC	Carbon Disulphide	CS2	0.6	60	591.08
DU/153/CC	Carbon Oxysulphide	COS			591.08
DU/154/CC	Cyanogen	(CN)2			591.08
DU/155/CC	Decane	C10H22	0.7	5.6	591.08
DU/156/CC	Diethylamine	C4H11N	1.7	10	591.08
DU/157/CC	2,3-Dimethylpentane	C7H16			591.08
DU/158/CC	2,2-Dimethylpropane	C7H16			591.08
DU/159/CC	Dimethylsulphide	(CH3)4C			591.08
DU/160/CC	1,4-Dioxane	C4H8O2	1.9	22.5	591.08
DU/161/CC	Ethane	C2H6	2.5	15.5	591.08
DU/162/CC	Ethylamine	C2H7N	2.68	14	591.08
DU/163/CC	ethylcyclopentane	C7H14	1.05	6.8	591.08
DU/164/CC	Ethyl Formate	C3H6O2	2.7	16.5	591.08
DU/165/CC	Ethylmercaptan	C2H6S			591.08

3.4 Explosive gases			High Quality Poison resistant		Price
Cod.	Relay Outputs		Catalytic sensor		LIST
	Formula		%v/v LEL	%v/v UEL	Euro
DU/166/CC	Hydrazine	H4N2			591.08
DU/167/CC	Hydrogen cyanide	HCN	5.4	46	591.08
DU/168/CC	Methyl Acetate	C3H6O2	3.2	16	591.08
DU/169/CC	Methylamine	CH5N	4.2	20.7	591.08
DU/170/CC	Methylcyclohexane	C7H14	1.16	6.7	591.08
DU/171/CC	Dimethyl Ether	C2H6O	2.7	32	591.08
DU/172/CC	Methylethylether	CH3OCH2			591.08
DU/173/CC	Methyl Formate	C2H4O2	5	23	591.08
DU/174/CC	Methyl mercaptan	CH3SH			591.08
DU/175/CC	Methylpropionate	C4H8O2			591.08
DU/176/CC	Methyl n-propylketone				591.08
DU/177/CC	Nitromethane	CH3NO2	7.3	63	591.08
DU/178/CC	n-Nonane	C9H20	0.7	5.6	591.08
DU/179/CC	n-Octane	C8H18	0.8	6.5	591.08
DU/180/CC	iso-Pentane	C5H12			591.08
DU/181/CC	n-Propylamine	C3H9N	2	10.4	591.08
DU/182/CC	Vinylethylther				591.08
DU/183/CC	Propylene	C3H6			591.08
DU/184/CC	Propyleneoxide	C3H6O			591.08
DU/185/CC	Propyne	C3H4	1.7	16.8	591.08

3.5 Oxigen (Electrochemical cell)				LIST
Cod.	4-20mA Output		Std.Range	Euro
	Formula			

DU/61	Oxygen	O2	0-30%	480.13
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3.6 Toxic gases (MOS Hybrid cell)				LIST
Cod.	4-20mA Output		Std.Range	Euro
	Formula			

DU/20/AA	Carbon monoxide	CO	0-500 ppm	330.95
DU/40/AA	Ammonia	NH3	400-1.000 ppm	330.95
DU/69/AA	Hydrogen sulfide	H2S	0-50 ppm	330.95
DU/79/AA	Carbon Dioxide	CO2	0-20.000 ppm	439.73

3.7 Toxic gases (MOS Hybrid cell)				LIST
Cod.	Relay Outputs		Std.Range	Euro
	Formula			

DU/20/CC	Carbon monoxide	CO	0-500 ppm	368.10
DU/40/CC	Ammonia	NH3	400-1.000 ppm	368.10
DU/69/CC	Hydrogen sulfide	H2S	0-100 ppm	368.10
DU/79/CC	Carbon Dioxide	CO2	0-20.000 ppm	476.90

<b>3.8</b>		<b>Toxic gases</b>		<b>Electrochemical cell</b>		
		<b>4-20mA Output</b>				<b>LIST</b>
<b>Cod.</b>		<b>Formula</b>	<b>Std.Range</b>			<b>Euro</b>
DU/20E/AA	Carbon monoxide	CO	0-300 ppm			918.78
DU/40E/AA	Ammonia	NH3	0-100 /0-1.000 ppm			1,155.28
DU/51E/AA	Ozone	O3	0-1 ppm			1,155.28
DU/63E/AA	Hydrogen cyanide	HCN	0-10 ppm			810.68
DU/64E/AA	Hydrogen chloride	HCL	0-30 ppm			1,155.28
DU/65E/AA	Chlorine	CL2	0-10 ppm			891.75
DU/66E/AA	Nitrogen dioxide	NO2	0-20 ppm			939.05
DU/67E/AA	Nitric oxide	NO	0-250 ppm			939.05
DU/70E/AA	Sulphur dioxide	SO2	0-100 ppm			1,155.28
DU/80E/AA	Silane/Germane	SiH4/GeH4	0-50 ppm			1,580.95
DU/90E/AA	Mercaptane	TBM	0-50 mg/m3			1,601.23
DU/91E/AA	Tetrahydrothiophene THT		0-50 mg/m3			1,601.23

<b>3.9</b>		<b>Toxic gases</b>		<b>Electrochemical cell</b>		
		<b>Relay Outputs</b>				<b>LIST</b>
<b>Cod.</b>		<b>Formula</b>	<b>Std.Range</b>			<b>Euro</b>
DU/20E/CC	Carbon monoxide	CO	0-300 ppm			955.95
DU/40E/CC	Ammonia	NH3	0-100 /0-1.000 ppm			1,192.43
DU/51E/CC	Ozone	O3	0-1 ppm			1,192.43
DU/63E/CC	Hydrogen cyanide	HCN	0-10 ppm			847.85
DU/64E/CC	Hydrogen chloride	HCL	0-30 ppm			1,192.43
DU/65E/CC	Chlorine	CL2	0-10 ppm			928.93
DU/66E/CC	Nitrogen dioxide	NO2	0-20 ppm			976.23
DU/67E/CC	Nitric oxide	NO	0-250 ppm			976.23
DU/70E/CC	Sulphur dioxide	SO2	0-100 ppm			1,192.43
DU/80E/CC	Silane/Germane	SiH4/GeH4	0-50 ppm			1,618.10
DU/90E/CC	Mercaptane	TBM	0-50 mg/m3			1,638.38
DU/91E/CC	Tetrahydrothiophene THT		0-50 mg/m3			1,638.38

## 4. enose® - DUST/DY

Micropocessor based gas detector  
designed to measure gases concentration with  
different range (%L.E.L. or ppm)  
LCD Display 2x8, 3 Relays and Keyboard  
Aluminium body IP65



4.1		Explosive gases		(General Purpose Catalytic sensor)		Price
		4-20 mA Output		Catalytic sensor		
Cod.	Formula	%v/v LEL	%v/v UEL			LIST Euro
DY/101/AA	Methane	CH4	5	15		520.13
DY/102/AA	G.P.L.	mix.				520.13
DY/103/AA	Pentane	C5H12	1.4	8		520.13
DY/104/AA	Propane	CH3CH2CH3	2	9.5		520.13
DY/105/AA	Butane	C4H10	1.5	8.5		520.13
DY/106/AA	Ethyl Alcohol					520.13
DY/107/AA	Propyl Alcohol					520.13
DY/108/AA	Methyl Alcohol					520.13
DY/109/AA	n-Butyl Alcohol	CH3(CH2)2 CH2OH	1.4	11.3		520.13
DY/110/AA	Vapori di benzina	mix.				520.13
DY/127/AA	Hydrogen	H2	4	75.6		520.13
DY/140/AA	Ammonia	NH3	15	30.2		520.13

4.2		Explosive gases		High Quality Poison resistant		Price
		4-20 mA Output		Catalytic sensor		
Cod.	Formula	%v/v LEL	%v/v UEL			LIST Euro
DY/101S/AA	Methane	CH4	5	15		803.93
DY/102S/AA	G.P.L.	mix.				803.93
DY/103S/AA	Pentane	C5H12	1.4	8		803.93
DY/104S/AA	Propane	CH3CH2CH3	2	9.5		803.93
DY/105S/AA	Butane	C4H10	1.5	8.5		803.93
DY/106S/AA	Ethyl Alcohol					803.93
DY/107S/AA	Propyl Alcohol					803.93
DY/108S/AA	Methyl Alcohol					803.93
DY/109S/AA	n-Butyl Alcohol	CH3(CH2)2 CH2OH	1.4	11.3		803.93
DY/110S/AA	Vapori di benzina	mix.				803.93
DY/127S/AA	Hydrogen	H2	4	75.6		803.93
DY/111/AA	Acetaldehyde	CH3CHO	4	57		803.93
DY/112/AA	Acetic Acid	CH3COOH	4	17		803.93
DY/113/AA	Acetone	(CH3)2CHO	2.15	13		803.93
DY/114/AA	Acetic Anhydride	(CH3CO)2O	2	10		803.93
DY/115/AA	Acetylene	C2H2	1.5	100		803.93

4.2 Cod.	Explosive gases 4-20 mA Output		High Quality Poison resistant Catalytic sensor		Price
	Formula	LEL	%v/v		LIST
			UEL		Euro
DY/116/AA	n-Butyl Benzene	C4H9OH			803.93
DY/117/AA	Alkyl Alcohol	C6-C12			803.93
DY/118/AA	Aniline	C6H5NH2	1.2	11	803.93
DY/119/AA	Benzene	C6H6	1.2	8	803.93
DY/120/AA	n-Amyl Alcohol	C5H12O			803.93
DY/121/AA	Biphenyl	C12H10			803.93
DY/122/AA	Methylethylketone	C2H5COCH3	1.8	11.5	803.93
DY/123/AA	1,3-Butadiene	C4H6	1.4	16.3	803.93
DY/124/AA	iso-Butane	C4H10	1.3	9.8	803.93
DY/125/AA	Butane-1	C4H8			803.93
DY/126/AA	Vinyl Chloride	CH2=CHCL	3.8	31	803.93
DY/128/AA	cisbutene-2	C4H8			803.93
DY/129/AA	Trans-Butene-2	C4H8			803.93
DY/130/AA	Cyclohexane	CH2 (CH2)4 CH2	1.2	8.3	803.93
DY/131/AA	Cyclopropane	CH2 CH2 CH2	2.4	10.4	803.93
DY/132/AA	iso-Butyl Alcohol	C4H10 O			803.93
DY/133/AA	Diethyl Ether	(C2 H5)2 O	1.7	36	803.93
DY/134/AA	Dimethylamine	(CH3)2 HN	2.8	14.4	803.93
DY/135/AA	Tert-Butyl Alcohol	C4H10 O			803.93
DY/136/AA	Triethylamine	(CH3CH2)3N	1.2	8	803.93
DY/137/AA	Ethyl Benzene	C2H5C6H5			803.93
DY/138/AA	Ethylene	CH2=CH2			803.93
DY/139/AA	Ethyleneoxide	CH2=CH2 O			803.93
DY/141/AA	Ammonia	NH3	10.000 ppm		803.93
DY/144/AA	iso-Propyl ether	C6H14O			803.93
DY/147/AA	Toluene	C6H5CH3	1.2	7	803.93
DY/148/AA	trementina	mix	0.8		803.93
DY/149/AA	Xylene	C6H4(CH3)2	1	7.6	803.93
DY/150/AA	iso-Butyl Benzene	C10H14			803.93
DY/151/AA	n-Butyric Acid	C4H8O2			803.93
DY/152/AA	Carbon Disulphide	CS2	0.6	60	803.93
DY/153/AA	Carbon Oxysulphide	COS			803.93
DY/154/AA	Cyanogen	(CN)2			803.93
DY/155/AA	Decane	C10H22	0.7	5.6	803.93
DY/156/AA	Diethylamine	C4H11N	1.7	10	803.93
DY/157/AA	2,3-Dimethylpentane	C7H16			803.93
DY/158/AA	2,2-Dimethylpropane	C7H16			803.93
DY/159/AA	Dimethylsulphide	(CH3)4C			803.93
DY/160/AA	1,4-Dioxane	C4H8O2	1.9	22.5	803.93
DY/161/AA	Ethane	C2H6	2.5	15.5	803.93
DY/162/AA	Ethylamine	C2H7N	2.68	14	803.93
DY/163/AA	ethylcyclopentane	C7H14	1.05	6.8	803.93
DY/164/AA	Ethyl Formate	C3H6O2	2.7	16.5	803.93
DY/165/AA	Ethylmercaptan	C2H6S			803.93
DY/166/AA	Hydrazine	H4N2			803.93
DY/167/AA	Hydrogen cyanide	HCN	5.4	46	803.93
DY/168/AA	Methyl Acetate	C3H6O2	3.2	16	803.93
DY/169/AA	Methylamine	CH5N	4.2	20.7	803.93
DY/170/AA	Methylcyclohexane	C7H14	1.16	6.7	803.93
DY/171/AA	Dimethyl Ether	C2H6O	2.7	32	803.93

4.2	Explosive gases		High Quality Poison resistant		Price
	4-20 mA Output		Catalytic sensor		LIST
Cod.	Formula		%v/v LEL	%v/v UEL	Euro
DY/172/AA	Methylethylether	CH3OCH2			803.93
DY/173/AA	Methyl Formate	C2H4O2	5	23	803.93
DY/174/AA	Methyl mercaptan	CH3SH			803.93
DY/175/AA	Methylpropionate	C4H8O2			803.93
DY/176/AA	Methyl n-propylketone				803.93
DY/177/AA	Nitromethane	CH3NO2	7.3	63	803.93
DY/178/AA	n-Nonane	C9H20	0.7	5.6	803.93
DY/179/AA	n-Octane	C8H18	0.8	6.5	803.93
DY/180/AA	iso-Pentane	C5H12			803.93
DY/181/AA	n-Propylamine	C3H9N	2	10.4	803.93
DY/182/AA	Vinylethylther				803.93
DY/183/AA	Propylene	C3H6			803.93
DY/184/AA	Propyleneoxide	C3H6O			803.93
DY/185/AA	Propyne	C3H4	1.7	16.8	803.93

4.3	Explosive gases		(General Purpose Catalytic sensor)		Price
	Relay Outputs And 4-20 mA		Catalytic sensor		LIST
Cod.	Formula		%v/v LEL	%v/v UEL	Euro
DY/101/CC	Methane	CH4	5	15	557.30
DY/102/CC	G.P.L.	mix.			557.30
DY/103/CC	Pentane	C5H12	1.4	8	557.30
DY/104/CC	Propane	CH3CH2CH3	2	9.5	557.30
DY/105/CC	Butane	C4H10	1.5	8.5	557.30
DY/106/CC	Ethyl Alcohol				557.30
DY/107/CC	Propyl Alcohol				557.30
DY/108/CC	Methyl Alcohol				557.30
DY/109/CC	n-Butyl Alcohol	CH3(CH2)2 CH2OH	1.4	11.3	557.30
DY/110/CC	Vapori di benzina	mix.			557.30
DY/127/CC	Hydrogen	H2	4	75.6	557.30
DY/140/CC	Ammonia	NH3	15	30.2	557.30

4.4	Explosive gases		High Quality Poison resistant		Price
	Relay Outputs And 4-20 mA		Catalytic sensor		LIST
Cod.	Formula		%v/v LEL	%v/v UEL	Euro
DY/101S/CC	Methane	CH4	5	15	841.08
DY/102S/CC	G.P.L.	mix.			841.08
DY/103S/CC	Pentane	C5H12	1.4	8	841.08
DY/104S/CC	Propane	CH3CH2CH3	2	9.5	841.08
DY/105S/CC	Butane	C4H10	1.5	8.5	841.08
DY/106S/CC	Ethyl Alcohol				841.08
DY/107S/CC	Propyl Alcohol				841.08
DY/108S/CC	Methyl Alcohol				841.08
DY/109S/CC	n-Butyl Alcohol	CH3(CH2)2 CH2OH	1.4	11.3	841.08
DY/110S/CC	Vapori di benzina	mix.			841.08
DY/127S/CC	Hydrogen	H2	4	75.6	841.08



4.4 Cod.	Explosive gases		High Quality Poison resistant		Price
	Relay Outputs And 4-20 mA	Formula	Catalytic sensor		LIST Euro
			%v/v LEL	%v/v UEL	
DY/111/CC	Acetaldehyde	CH3CHO	4	57	841.08
DY/112/CC	Acetic Acid	CH3COOH	4	17	841.08
DY/113/CC	Acetone	(CH3)2CHO	2.15	13	841.08
DY/114/CC	Acetic Anhydride	(CH3CO)2O	2	10	841.08
DY/115/CC	Acetylene	C2H2	1.5	100	841.08
DY/116/CC	n-Butyl Benzene	C4H9OH			841.08
DY/117/CC	Alkyl Alcohol	C6-C12			841.08
DY/118/CC	Aniline	C6H5NH2	1.2	11	841.08
DY/119/CC	Benzene	C6H6	1.2	8	841.08
DY/120/CC	n-Amyl Alcohol	C5H12O			841.08
DY/121/CC	Biphenyl	C12H10			841.08
DY/122/CC	Methylethylketone	C2H5COCH3	1.8	11.5	841.08
DY/123/CC	1,3-Butadiene	C4H6	1.4	16.3	841.08
DY/124/CC	iso-Butane	C4H10	1.3	9.8	841.08
DY/125/CC	Butane-1	C4H8			841.08
DY/126/CC	Vinyl Chloride	CH2=CHCL	3.8	31	841.08
DY/128/CC	cisbutene-2	C4H8			841.08
DY/129/CC	Trans-Butene-2	C4H8			841.08
DY/130/CC	Cyclohexane	CH2 (CH2)4 CH2	1.2	8.3	841.08
DY/131/CC	Cyclopropane	CH2 CH2 CH2	2.4	10.4	841.08
DY/132/CC	iso-Butyl Alcohol	C4H10 O			841.08
DY/133/CC	Diethyl Ether	(C2 H5)2 O	1.7	36	841.08
DY/134/CC	Dimethylamine	(CH3)2 HN	2.8	14.4	841.08
DY/135/CC	Tert-Butyl Alcohol	C4H10 O			841.08
DY/136/CC	Triethylamine	(CH3CH2)3N	1.2	8	841.08
DY/137/CC	Ethyl Benzene	C2H5C6H5			841.08
DY/138/CC	Ethylene	CH2=CH2			841.08
DY/139/CC	Ethyleneoxide	CH2=CH2 O			841.08
DY/141/CC	Ammonia	NH3	10.000 ppm		841.08
DY/144/CC	iso-Propyl ether	C6H14O			841.08
DY/147/CC	Toluene	C6H5CH3	1.2	7	841.08
DY/148/CC	trementina	mix	0.8		841.08
DY/149/CC	Xylene	C6H4(CH3)2	1	7.6	841.08
DY/150/CC	iso-Butyl Benzene	C10H14			841.08
DY/151/CC	n-Butyric Acid	C4H8O2			841.08
DY/152/CC	Carbon Disulphide	CS2	0.6	60	841.08
DY/153/CC	Carbon Oxysulphide	COS			841.08
DY/154/CC	Cyanogen	(CN)2			841.08
DY/155/CC	Decane	C10H22	0.7	5.6	841.08
DY/156/CC	Diethylamine	C4H11N	1.7	10	841.08
DY/157/CC	2,3-Dimethylpentane	C7H16			841.08
DY/158/CC	2,2-Dimethylpropane	C7H16			841.08
DY/159/CC	Dimethylsulphide	(CH3)4C			841.08
DY/160/CC	1,4-Dioxane	C4H8O2	1.9	22.5	841.08
DY/161/CC	Ethane	C2H6	2.5	15.5	841.08
DY/162/CC	Ethylamine	C2H7N	2.68	14	841.08
DY/163/CC	ethylcyclopentane	C7H14	1.05	6.8	841.08
DY/164/CC	Ethyl Formate	C3H6O2	2.7	16.5	841.08
DY/165/CC	Ethylmercaptan	C2H6S			841.08
DY/166/CC	Hydrazine	H4N2			841.08
DY/167/CC	Hydrogen cyanide	HCN	5.4	46	841.08

4.4 Cod.	Explosive gases		High Quality Poison resistant		Price
	Relay Outputs And 4-20 mA		Catalytic sensor		LIST
	Formula	%v/v LEL	%v/v UEL	Euro	
DY/168/CC	Methyl Acetate	C3H6O2	3.2	16	841.08
DY/169/CC	Methylamine	CH5N	4.2	20.7	841.08
DY/170/CC	Methylcyclohexane	C7H14	1.16	6.7	841.08
DY/171/CC	Dimethyl Ether	C2H6O	2.7	32	841.08
DY/172/CC	Methylethylether	CH3OCH2			841.08
DY/173/CC	Methyl Formate	C2H4O2	5	23	841.08
DY/174/CC	Methyl mercaptan	CH3SH			841.08
DY/175/CC	Methylpropionate	C4H8O2			841.08
DY/176/CC	Methyl n-propylketone				841.08
DY/177/CC	Nitromethane	CH3NO2	7.3	63	841.08
DY/178/CC	n-Nonane	C9H20	0.7	5.6	841.08
DY/179/CC	n-Octane	C8H18	0.8	6.5	841.08
DY/180/CC	iso-Pentane	C5H12			841.08
DY/181/CC	n-Propylamine	C3H9N	2	10.4	841.08
DY/182/CC	Vinylethylther				841.08
DY/183/CC	Propylene	C3H6			841.08
DY/184/CC	Propyleneoxide	C3H6O			841.08
DY/185/CC	Propyne	C3H4	1.7	16.8	841.08

4.5 Cod.	Oxigen (Electrochemical cell)			LIST
	4-20mA Output			Euro
	Formula	Std.Range		
DY/61	Oxygen	O2	0-30%	716.08

4.6 Cod.	Toxic gases (MOS Hybrid cell)			Price
	4-20mA Output			LIST
	Formula	Std.Range		Euro
DY/20/AA	Carbon monoxide	CO	0-500 ppm	580.95
DY/40/AA	Ammonia	NH3	400-1.000 ppm	580.95
DY/69/AA	Hydrogen sulfide	H2S	0-100 ppm	580.95
DY/79/AA	Carbon Dioxide	CO2	0-20.000 ppm	689.73

4.7 Cod.	Toxic gases (MOS Hybrid cell)			Price
	Relay Outputs And 4-20 mA			LIST
	Formula	Std.Range		Euro
DY/20/CC	Carbon monoxide	CO	0-500 ppm	618.10
DY/40/CC	Ammonia	NH3	400-1.000 ppm	618.10
DY/69/CC	Hydrogen sulfide	H2S	0-100 ppm	618.10
DY/79/CC	Carbon Dioxide	CO2	0-20.000 ppm	726.90

<b>4.8</b>		<b>Toxic gases</b>		<b>Electrochemical cell</b>		
		<b>4-20mA Output</b>				<b>LIST</b>
<b>Cod.</b>		<b>Formula</b>	<b>Std.Range</b>			<b>Euro</b>
DY/20E/AA	Carbon monoxide	CO	0-300 ppm			1,168.78
DY/40E/AA	Ammonia	NH3	0-100 /0-1.000 ppm			1,405.28
DY/51E/AA	Ozone	O3	0-1 ppm			1,405.28
DY/63E/AA	Hydrogen cyanide	HCN	0-10 ppm			1,060.68
DY/64E/AA	Hydrogen chloride	HCL	0-30 ppm			1,405.28
DY/65E/AA	Chlorine	CL2	0-10 ppm			1,141.75
DY/66E/AA	Nitrogen dioxide	NO2	0-20 ppm			1,189.05
DY/67E/AA	Nitric oxide	NO	0-250 ppm			1,189.05
DY/70E/AA	Sulphur dioxide	SO2	0-100 ppm			1,405.28
DY/80E/AA	Silane/Germane	SiH4/GeH4	0-50 ppm			1,830.95
DY/90E/AA	Mercaptane	TBM	0-50 mg/m3			1,851.23
DY/91E/AA	Tetrahydrothiophene THT		0-50 mg/m3			1,851.23

<b>4.9</b>		<b>Toxic gases</b>		<b>Electrochemical cell</b>		
		<b>Relay Outputs</b>				<b>LIST</b>
<b>Cod.</b>	<b>And 4-20 mA</b>	<b>Formula</b>	<b>Std.Range</b>			<b>Euro</b>
DY/20E/CC	Carbon monoxide	CO	0-300 ppm			1,205.95
DY/40E/CC	Ammonia	NH3	0-100 /0-1.000 ppm			1,442.43
DY/51E/CC	Ozone	O3	0-1 ppm			1,442.43
DY/63E/CC	Hydrogen cyanide	HCN	0-10 ppm			1,097.85
DY/64E/CC	Hydrogen chloride	HCL	0-30 ppm			1,442.43
DY/65E/CC	Chlorine	CL2	0-10 ppm			1,178.93
DY/66E/CC	Nitrogen dioxide	NO2	0-20 ppm			1,226.23
DY/67E/CC	Nitric oxide	NO	0-250 ppm			1,226.23
DY/70E/CC	Sulphur dioxide	SO2	0-100 ppm			1,442.43
DY/80E/CC	Silane/Germane	SiH4/GeH4	0-50 ppm			1,868.10
DY/90E/CC	Mercaptane	TBM	0-50 mg/m3			1,888.38
DY/91E/CC	Tetrahydrothiophene THT		0-50 mg/m3			1,888.38

## 5. enose® - Park

Micropocessor based gas detector  
designed to measure CO and gasoline vapors  
different range (%L.E.L. or ppm)  
Aluminium body IP65

enose® technology



5.1 Cod.	Explosive gases		High Quality Poison resistant Catalytic sensor		Price LIST Euro
	4-20mA Output		%v/v LEL	%v/v UEL	
		Formula			
PK/101	Methane	CH4	5	15	180.00
PK/102	L.P.G.	mix.			180.00
PK/103	Pentane	C5H12	1.4	8	180.00
PK/104	Propane	CH3CH2CH3	2	9.5	180.00
PK/105	Butane	C4H10	1.5	8.5	180.00
PK/107	Propyl Alcohol				180.00
PK/127	Hydrogen	H2	4	75.6	180.00
PK/140	Ammonia	NH3	15	30.2	180.00

5.2 Cod.	Toxic gases		(MOS Hybrid cell)		Price LIST Euro
	4-20mA Output		Std.Range		
		Formula			
PK/20	Carbon monoxide	CO	0-500 ppm		175.00
PK/30	Gasoline vap.	Mix.	10.000 ppm		175.00
PK/70	VOCs	Mix.	500 ppm		175.00

## 6.0. Configurations and product code Part number description

Body	Substance Code	Base connection	Output Configuration Code			
			AD DY	101	AA	Analog 4-20 mA
<b>RAS</b>	EEx-d IIC T6 IP65					
<b>DUST</b>	Aluminium Standard ALsi12 IP65	DU DY	:		<b>OC</b>	Open Colector for Allarms and Fail
<b>PARK</b>	Sandblasted die-cast aluminium IP65		:		<b>CC</b>	Relay outputs for Allarms and Fail

Example of composition of the Part number for a catalytic sensor for methane in execution EEx-d with proportional output 4-20 mA

cod. **RAS/AD/101/AA**



Example of composition of the Part number for a High Quality catalytic sensor for methane in execution EEx-d with Display relay outputs and proportional output 4-20 mA.

cod. **RAS/DY/101S/CC**



Example of composition of the Part number for a toxic sensor for ammonia in execution Dust IP65 with relay outputs for alarms and fail

cod. **DUST/DU/40/CC**



Example of composition of the Part number for a toxic sensor for CO in execution Park IP65 with proportional output 4-20 mA

cod. **PK/20/AA**



Example of composition of the Part number for a toxic sensor for ammonia in execution Dust IP65 with relay outputs for alarms and display

cod. **DUST/DY/40/CC**



## 7.0

## GAS DETECTOR ACCESSORIES

Price

LIST

Euro

**Remote display with Relay Actuator**

331.75

cod. DUST/DY-28

LCD Display 8 characters x 2 lines  
 Rugged and ultra compact  
 3 Relays  
 Maximum switch power 1W  
 Maximum switch voltage 100 Vdc  
 Power Requirements 12 or 24 Vdc



Data sheets: DY28

**ATEX version**

cod. RAS/DY28

773.10

LCD Display 8 characters x 2 lines  
 Rugged and ultra compact  
 3 Relays  
 Maximum switch power 1W  
 Maximum switch voltage 100 Vdc  
 Power Requirements 12 or 24 Vdc

**Remote leds Alarm Panel**

cod. RA-04

160.00

4 leds  
 Rugged and ultra compact  
 3 Relays, Buzzer, Lamp Test  
 Maximum switch power 1W  
 Maximum switch voltage 100 Vdc  
 Power Requirements 12 or 24 Vdc

**Micro Sample unit**

cod. Microflow

390.00

Micro Pump 4 l/min.  
 Flow indicator  
 Flow Alarm  
 Sample rate 0,25-4 l/min.

**Collector Cone**

Permite to maximise the exposure of a gas or vapour, particularly useful when leak of gases lighter than air are possible.

**Cod.**

GDA-CO



30.00

**Splash Deflectors**

Water splashing protection device for GM2 head

**Cod.**

GDA-SD



16.00

7.0	GAS DETECTOR ACCESSORIES	LIST Euro
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**Flow Adaptors**

Enable gas samples to be piped to the detecting heads.

**Cod.**

GDA-FA-1	for GM1 head	32.00
GDA-FA-2	for GM2 head	32.00



**Magnet for calibration procedure**

**Cod.**

MAG-1	for GM1 head	6.00
MAG-2	for GM2 head	6.00



**Gas Test Kits**

The Kit consists of two canisters of gas mixture, control valve, flow indicator and calibrator adapter for gas detector .

**Cod.**

	Gas Mixture	
GDA-TK-100	2.5% CH4	195.00
GDA-TK-104	1.1% Propane	195.00
GDA-TK-127	2% H2	195.00
GDA-TK-40	1.000 ppm NH3	253.00
GDA-TK-61	10% O2	228.00
GDA-TK-68	300 ppm CO	228.00
GDA-TK-69	50 ppm H2S	253.00
GDA-TK-79	1% CO2	228.00



Data sheets: enocal

**20 litres of gas mixtures cylinder**

**Cod.**

	Gas Mixture	
GDA-CY-100	2.5% CH4	32.00
GDA-CY-104	1.1% Propane	32.00
GDA-CY-127	2% H2	32.00
GDA-CY-40	200 ppm NH3	48.00
GDA-CY-61	10% O2	32.00
GDA-CY-68	200 ppm CO	32.00
GDA-CY-69	50 ppm H2S	48.00



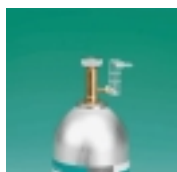
Many other mixtures available on request.

Data sheets: Gas mixture List

**Control valve and flow indicator**

**Cod.**

GDA-FL-20		29.00
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Data sheets: microflow

## 8.0 ELECTRONIC HEAT DETECTOR TMP2


High reliability, dependable long-life.  
 Immune from EMI disturbances and virtually eliminate false alarms.  
 Two temperature set-point levels setting from -20°C to 110°C.  
 Self-diagnosis procedure.  
 Wide range of temperature settings.  
 Two wire technology.  
 TMP2 detectors are sturdy, shock and vibration resistant and are compatible with all fire alarm control panel.  
 Particularly suitable in dangerous environmental conditions such as in the presence of corrosive elements or condensing steams.  
 ATEX Approved II 2G EEx-d IIC T6 IP65




### 8.1

Cod.	Configuration	Description	LIST
			Euro
TMP2-1R-J-xx		EEx-d Single set-pont RoR	183.13
TMP2-2R-J-xx-xx		EEx-d Double set-pont RoR	201.44
TMP2-1S-J-xx		EEx-d Single set-pont Static	183.13
TMP2-2S-J-xx-xx		EEx-d Double set-pont Static	201.44
TMP2-J-xx/AA		EEx-d 4-20mA	225.68

### 8.2

Cod.	Configuration	Description	LIST
			Euro
TMP2-1R-D-xx		Dust Single set-pont RoR	162.35
TMP2-2R-D-xx-xx		Dust Double set-pont RoR	178.59
TMP2-1S-D-xx		Dust Single set-pont Static	162.35
TMP2-2S-D-xx-xx		Dust Double set-pont Static	178.59
TMP2-D-xx/AA		Dust 4-20 mA	203.38

### 8.3

Cod.	Configuration	Description	LIST
			Euro
TMP2-1R-P-xx		IP67 Probe Single set-pont RoR	136.95
TMP2-2R-P-xx-xx		IP67 Probe Double set-pont RoR	150.65
TMP2-1S-P-xx		IP67 Probe Single set-pont Static	136.95
TMP2-2S-P-xx-xx		IP67 Probe Double set-pont Static	150.65