PRO-CHEM ANALYTIK

Invidual Gasanalyzer Devices and Systems

Oxygen O_2

Hydrogen H_2

Moisture H_2O

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PRO-CHEM ANALYTIK

Summary:

Gas analyzer:

Side	Typ
3	O_2Tracer , O_2Tracer, Oxytrans LC, Oxytrans LC KF-Fange
4	Oxytrans I, Oxytrans I KF, Oxytrans II, Oxytrans II KF
5	H2-Trans, H2-Trans ZO, Hydro-Trans, H2-WLD 1000
6	H2-Sens, Oxymaster II 16 T, Oxymaster II 16 P, Oxymaster II 16 TD
7	OxyP % , OxyP T , OxyP %-H2 , OxyDew Case

Humidity - analyzer:

Side	Typ
8	LDT , AMT , HT-120 , Phosphorpentoxid
9	HD/ HR – 200, HCA – 100D/100R , DewP, Pro-PSS
10	Pro-DEW, Pro-PDT, SADP mini, SADP mini Ex
11	Dewtrans CM 10, DewTrans, DewTrans CR, DPM-S2
12	Dewmaster , ComAir , DPS 3 , Moisturemaster II
13	Dewmaster case , Model 1500 , RH-Cal , DewGen

Example:

Side	Panels + Cabinets
13	Costumer example for cabinets and panels.

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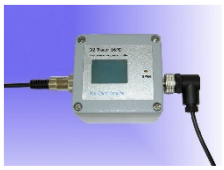
Typ	O_2Tracer	O_2Tracer LC	Oxytrans LC	Oxytrans LC KF
				
Parameter1	Oxygen	Oxygen	Oxygen	Oxygen
Parameter2				
Method	Electro chemical	Electro chemical	Electro chemical	Electro chemical
Range	0 – 100 % 0 – 25 % 0 – 5 % Spezial Range	0 – 25 % Spezial Range	0 – 25 % 0 – 10.000 ppm 0 – 1.000 ppm Spezial Range switchable	0 – 25 % 0 – 10.000 ppm 0 – 1.000 ppm Spezial Range switchable
ATEX	No	No	No	No
Accuracy	+/- 5 % FSD	+/- 2 % FSD	+/- 2 % FSD	+/- 2 % FSD
Resolution	0,1 %	0,1 % 0,01 %	0,1 ppm	0,1 ppm
Flow rate	ca. 1 l/min	ca. 1 l/min	ca. 1 l/min	ca. 1 l/min
Pressure	0,1 – 1 bar	0,1 – 1 bar	0,1 – 1 bar	0,1 – 1 bar
Calibration	Air / Cal. Gas	Air / Cal. Gas	Air / Cal. Gas	Air / Cal. Gas
Response time T 90	10 s	0-10 % 20s	0-10 ppm 45s 0-100 ppm 20s	0-10 ppm 45s 0-100 ppm 20s
Gas temperature	0 – 50°C	0 – 50°C	0 – 50°C	0 – 50°C
Output	4 – 20 mA	4 – 20 mA 2-Wire	4 – 20 mA 2-Wire	4 – 20 mA 2-Wire
Supply Voltage	10 – 35V	10 – 35V	10 – 35V	10 – 35V
Display	LCD 6 Digits Bargraph Display	No Display	No Display	No Display
Protection Class	IP 65	IP 65	IP 65	IP 65
Connection	M 16 x 1	6 mm	6 mm	6 mm
Dimension	80x75x55	60x90	60x90	60x90
Weight	0,3 Kg	1 Kg	1 Kg	1 Kg

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Typ	Oxytrans I	Oxytrans I KF	Oxytrans II	Oxytrans II KF
Parameter1	Oxygen	Oxygen	Oxygen	Oxygen
Parameter2				
Method	Electro chemical	Electro chemical	Electro chemical	Electro chemical
Range	0 – 100 % 0 – 10.000 ppm 0 – 10 ppm Spezial Range	0 – 100 % 0 – 10.000 ppm 0 – 10 ppm Spezial Range	0 – 1/10/100 % switchable 0 – 10/100/1.000/ 10.000 ppm switchable	0 – 1/10/100 % switchable 0 – 10/100/1.000/ 10.000 ppm switchable
ATEX	ATEX / SIL	ATEX / SIL	ATEX / SIL	ATEX / SIL
Accuracy	+/- 2 % FSD	+/- 2 % FSD	+/- 2 % FSD	+/- 2 % FSD
Resolution	0,1 ppm 0,01 ppm	0,1 ppm	0,1 ppm 0,01 ppm	0,1 ppm
Flow rate	ca. 1 l/min	ca. 1 l/min	ca. 1 l/min	ca. 1 l/min
Pressure	0,1 – 1 bar	0,1 – 1 bar	0,1 – 1 bar	0,1 – 1 bar
Calibration	Air / Cal. Gas	Air / Cal. Gas	Air / Cal. Gas	Air / Cal. Gas
Response time T 90	0-10 ppm 45s 0-100 ppm 20s	0-10 ppm 45s 0-100 ppm 20s	0-10 ppm 45s 0-100 ppm 20s	0-10 ppm 45s 0-100 ppm 20s
Gas temperature	0 – 50°C	0 – 50°C	0 – 50°C	0 – 50°C
Output	4 – 20 mA 2-Wire	4 – 20 mA 2-Wire	4 – 20 mA 2-Wire	4 – 20 mA 2-Wire
Supply Voltage	10 – 35V	10 – 35V	10 – 35V	10 – 35V
Display	LCD 6 Digits Bargraph Display	LCD 6 Digits Bargraph Display	LCD 6 Digits Bargraph Display	LCD 6 Digits Bargraph Display
Protection Class	IP 65	IP 65	IP 65	IP 65
Connection	6 mm	KF 40 Flansch	6 mm	KF 40 Flansch
Dimension	120x160x65	120x160x65	120x160x65	120x160x65
Weight	2 Kg	2 Kg	2 Kg	2 Kg

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Typ	H2-Trans	H2-Trans ZO	Hydro-Trans HCT	H2-WLD 1000
			NEW	NEW
Parameter1	Hydrogen	Hydrogen	Hydrogen	Hydrogen
Parameter2				
Method	Electro chemical	Electro chemical	thermal-conductivity	thermal-conductivity
Range	0 – 10.000 ppm 0 – 100 ppm	0 – 10.000 ppm 0 – 100 ppm	0 – 5% 0 – 10% 0 – 100%	0 – 5% 0 – 10% 0 – 100%
ATEX	ATEX / SIL	No	Ex d	No
Accuracy	+/- 2 % FSD	+/- 2 % FSD	+/- 3 % FSD	+/- 3 % FSD
Resolution	0,1 ppm	0,1 ppm	0,1 %	0,1 %
Flow rate	ca. 1 l/min	ca. 1 l/min	ca. 1 l/min	ca. 1 l/min
Pressure	0,1 – 1 bar	0,1 – 1 bar	0,1 – 20 bar	0,1 – 20 bar
Calibration	Cal. Gas	Cal. Gas	Cal.Gas	Cal.Gas
Response time T 90	0-1 % 45s	0-1 % 45s	2s	2s
Gas temperature	0 – 50°C	0 – 50°C	0 – 50°C	0 – 50°C
Output	4 – 20 mA 2-Leiter	4 – 20 mA 2-Leiter	4 – 20 mA Alarm RS232	4 – 20 mA Alarm RS232
Supply Voltage	10 – 35V	10 – 35V	10 – 35V	10 – 35V
Display	LCD 6 Digits Bargraph Display	LCD 6 Digits Bargraph Display	LCD 6 Digits Anzeige	LCD 6 Digits Anzeige
Protection Class	IP 65	IP 65	IP 65	IP 65
Connection	6 mm	6 mm	6 mm	6 mm
Dimension	120x160x65	120x160x65	145x80x85	145x80x85
Weight	2 Kg	2 Kg	2 Kg	2 Kg

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Typ	H2-checker	Oxymaster II 16T	Oxymaster II 16P	Oxymaster II 16TD
	NEW			
Parameter1	Hydrogen	Oxygen	Oxygen	Oxygen
Parameter2				moisture / H2
Method	Pellistor	Electro chemical	Electro chemical	Electro chemical
Range	0 – 100% LEL Room control	0 – 10.000 ppm 0 – 10 ppm Freely programmable	0 – 100 % 0 – 25 % 0 – 5 % Freely programmable	0 – 10.000 ppm 0 – 10 ppm Freely programmable
ATEX	Ex d	No	No	No
Accuracy	+/- 2 % FSD	+/- 2 % FSD	+/- 2 % FSD	+/- 2 % FSD
Resolution	0,1 %	0,1 ppm 0,01 ppm	0,01 %	0,1 ppm 0,01 ppm
Flow rate	-	ca. 1 l/min	ca. 1 l/min	ca. 1 l/min
Pressure	0,8 – 1,2 bar	0,1 – 1 bar	0,1 – 1 bar	0,1 – 1 bar
Calibration	Cal.Gas	Air / Cal. Gas	Air / Cal. Gas	Air / Cal. Gas
Response time T 90	20 s	0-10 ppm 60s	0-10 % 30s	0-10 ppm 60s
Gas temperature	-20°C – 60°C	0 – 50°C	0 – 50°C	0 – 50°C
Output	4 – 20 mA Alarm	4 – 20 mA/ RS232 Alarm Datalogger	4 – 20 mA/ RS232 Alarm Datalogger	4 – 20 mA/ RS232 Alarm Datalogger
Supply Voltage	20 – 28V	85 – 230V	85 – 230V	85 – 230V
Display	LCD 2-line Status LED´s 3	Graphic Display	Graphic display	Graphic Display
Protection Class	IP 66	IP 65	IP 65	IP 65
Connection		6 mm	6 mm	6 mm
Dimension	95x82x65	220x190x190	220x190x190	220x190x190
Weight	1,5 Kg	3 Kg	3 Kg	3 Kg

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Typ	OxyP %	OxyP T	OxyP % - H2	OxyDew - Koffer
Parameter1	Oxygen	Oxygen	Oxygen	Oxygen
Parameter2			Hydrogen	Humidity
Method	Electro chemical	Electro chemical	Electro chemical	Electro Chemical Al2O3/ Crystalline
Range	0 – 100 % 0 – 25 % 0 – 5 % Spezial Range	0 – 10.000 ppm 0 – 1.000 ppm 0 – 100 ppm 0 – 10 ppm Switching	0 – 10 % H2 0 – 25 % O2 Spezial Rang	0 – 10.000 ppm 0 – 10 ppm Freely programmable
ATEX	No	No	No	No
Accuracy	+/- 2 % FSD	+/- 2 % FSD	+/- 2 % FSD	+/- 2 % FSD
Resolution	0,01 %	0,1 ppm	0,01 %	0,1 ppm 0,1 °C
Flow rate	ca. 1 l/min	ca. 1 l/min	ca. 1 l/min	ca. 1 l/min
Pressure	0,1 – 1 bar	0,1 – 1 bar	0,1 – 1 bar	0,1 – 1 bar
Calibration	Air / Cal. Gas	Cal. Gas	Air/Cal. Gas	Cal. Gas
Response time T 90	0-10 % 30s	0-10 ppm 45s	0-10 % 30s	0-10 ppm 60s
Gas temperature	0 – 50°C	0 – 50°C	0 – 50°C	0 – 50°C
Output	4 – 20 mA Option: Datalogger	4 – 20 mA Option: Datalogger	4 – 20 mA Option: Datalogger	4 – 20 mA/ RS232 Alarm Datalogger
Supply Voltage	85 – 230V Akku	85 – 230V Akku	10 – 35V Akku	85 – 230V
Display	LCD 6 Digits Bargraph Display	LCD 6 Digits Bargraph Display	2 x LCD 6 Digits Bargraph Display	Graphic Display
Protection Class	IP 65	IP 65	IP 65	IP 65
Connection	6 mm	6 mm	6 mm	6 mm
Dimension	240x160x130	240x160x130	240x160x130	220x190x190
Weight	2 Kg	2 Kg	2 Kg	5 Kg

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Typ	LDT	AMT	HT- 120	Phosphorpentoxid
Parameter1	Moisture	Moisture	Moisture	Moisture
Parameter2			Temperature	
Method	Nano Pore	Al2O3	Capacitive	Phosphorpentoxid
Range	-110°C - +20°C	-120°C - + 20°C -100°C - + 20°C - 60°C - + 20°C	+30°C - -60°C Tp 5% - 95% rH	0 – 500 Vppm
ATEX	No	ATEX	No	No
Accuracy	+/- 2 °C TP	+/- 2 % FSD	+/- 1 % FSD	+/- 5 % FSD
Resolution	Range	Range	Range	0,1 ppmv
Flow rate	ca. 1 l/min	2 – 5 l/min	2 – 5 l/min	20Nl/h
Pressure	345 bar	200 bar	40 bar	200 mbar
Calibration	Mirror	Mirror	Mirror	Mirror
Response time T 90	+20°C- -40°C 60s	-20°C -60 90s	0-1 % 45s	T50 12s
Gas temperature	-40 – +70°C	-10°C – 50°C	-20°C – +120°C	+5°C – +65°C
Output	4 – 20 mA 2-Leiter	4 – 20 mA 2-Leiter	4 – 20 mA/ 0-10V / RS232 Alarm	4 – 20 mA 0 – 10 V RS232
Supply Voltage	5 – 28 V	10 – 28 V	18 – 30V	24V / 50Hz
Display	No	Option	Option	LED Status
Protection Class	IP 65	IP 65	IP 65	IP 65
Connection	¾“UNF,½“ NPT	¾“	¾“	KF25 / KF40
Dimension	9 cm	14 cm	17 cm	75 x 140 mm
Weight	0,3 Kg	0,3 Kg	1 Kg	0,7 Kg

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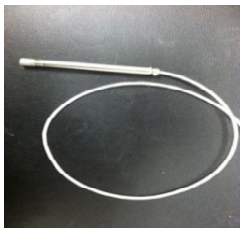
Gerätetyp	HD/HR – 200	HCA – 100D/ 100R	DewP	Pro-PSS
				NEW
Parameter1	Moisture	Moisture	Moisture	Moisture
Parameter2				
Method	Capacitive	Capacitive	Capacitive	AL2O3
Range	-60°C - +40°C TP 0 – 100 % rH	-50°C - +90°C TP 0 – 100% rH	-100°C - +20°C Taupunkt	-110°C- -20°CTP -100°C- 0°CTP -80°C - +20°C
ATEX	No	No	No	Ja
Accuracy	+/- 1 % FSD	+/- 1 % FSD	+/- 2°C	+/- 2°C TP
Resolution	Range	Range	Range	Analog to the measuring range
Flow rate	2 – 5 l/min	2 – 5 l/min	2 – 5 l/min	2 – 5 l/min
Pressure	10 bar	10 bar	0,1 – 1,0 bar	200 bar
Calibration	Dew Point Mirror	Dew Point Mirror	Dew Point Mirror	Dew Point Mirror
Response time T 90			+20 - -60°C 60s	+20 - -60°C 60s
Gas temperature	200°C	100°C	0 – 50°C	-20°C – +50°C
Output	4 – 20 mA 2-Wire	4 – 20 mA 2-Wire	4 – 20 mA Option: Datalogger	4 – 20 mA Option: Datalogger
Supply Voltage	12 – 28 V	12 – 28 V	85 – 230V Battery	85 – 230V Battery
Display	LCD 2-zeilig TP/ T	ohne	LCD 6 Digits Bargraph Display	Colordisplay Graphic
Protection Class	IP 65	IP 65	IP 65	IP 66
Connection	½“	½“	6 mm	6 mm
Dimension	10 cm	6“	240x160x130	215x108x124
Weight	0,3 Kg	0,3 Kg	2 Kg	5 Kg

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	Pro-Dew	Pro-PDT	SADP mini 2-L	SADP mini 2-Ex
	NEW	NEW	NEW	NEW
Parameter1	Moisture	Moisture	Moisture	Moisture
Parameter2				
Method	AL2O3	Polymer	AL2O3	AL2O3
Range	-120°C - -20°C TP -80 °C - +20°C TP	-60°C - +20°C TP -40°C - +30°C TP -20°C - +50°C TP	-110°C- -20°CTP -100°C- 0°CTP -80°C - +20°C	-110°C- -20°CTP -100°C- 0°CTP -80°C - +20°C
ATEX	Nein	Nein	Nein	Ja
Accuracy	+/- 2°C TP	+/- 2°C TP	+/- 2°C TP	+/- 2°C TP
Resolution	Analog to the measuring range	Analog to the measuring range	Analog to the measuring range	Analog to the measuring range
Flow rate	2 – 5 l/min	2 – 3 l/min	2 – 5 l/min	2 – 5 l/min
Pressure	0,01 – 350 barA	-1 - +50 bar	Atmosphere	Atmosphere
Calibration	Dew point mirror	Dew point mirror	Dew point mirror	Dew point mirror
Response time T 90	-20 to -60°C < 60s	-20 to -60°C < 60s	+20 - -60°C 60s	+20 - -60°C 60s
Gas temperature	80°C	-20°C - +70°C	-20°C – +50°C	-20°C – +50°C
Output	4 – 20 mA 2-Leiter	4 – 20 mA 2-Leiter	USB Option: Datalogger	USB Option: Datalogger
Supply Voltage	10 – 28 V	10 – 30 V	85 – 230V Accu	85 – 230V Accu
Display	LCD 2-line TP Option	LCD 2-line TP Option	Colordisplay Graphic	Colordisplay Graphic
Protection Class	IP 65	IP 65	IP 66	IP 66
Connection	¾“	½“	6 mm	6 mm
Dimension	14 cm	13 cm	215x108x124	215x108x124
Weight	0,3 Kg	0,3 Kg	2 Kg	2 Kg

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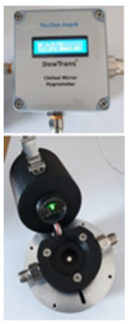
Gerätetyp	DewTrans CM10	DewTrans	DewTrans CR	DewTrans DPM-S2
	NEW			NEW
Parameter1	Moisture	Moisture	Moisture	Moisture
Parameter2	Temperature	Temperature	Temperature	Temperature
Method	Dew Point Mirror 1-stage	Dew Point Mirror 2-stage	Dew Point Mirror 2-stage	Dew Point Mirror 2-stage
Range	-20°C - +40°C TP -40°C - +120°C T	-60°C - +60°C TP 0 - 95 % rH	-60°C - +60°C TP 0 - 95 % rH	-60°C - +60°C TP 0 - 95 % rH
ATEX	No	No	No	No
Accuracy	+/- 0,3 °C	+/- 0,2 °C	+/- 0,2 °C	+/- 0,2 °C
Resolution	0,05 °C	0,01 °C	0,01 °C	0,01 °C
Flow rate	1 – 3 l/min	1 – 5 l/min	1 – 5 l/min	1 – 5 l/min
Pressure	10 bar	10 bar	10 bar	10 bar
Calibration	Dew Point Mirror	Dew Point Mirror	Dew Point Mirror	Dew Point Mirror
Response time T 90	1°C / sec	1°C / sec	1°C / sec	1°C / sec
Gas temperature	100°C	100°C	100°C	100°C
Output	2x 4 – 20 mA	2x 4 – 20mA RS232 Alarm	2x 4 – 20mA RS232 Alarm	2x 4 – 20mA RS232 Alarm Datalogger
Supply Voltage	24V	24V	24V	24V/ Battery
Display	No Display	LCD 2-zeilig TP/ T	LCD 2-zeilig TP/ T	LCD 2-zeilig TP/ T
Protection Class	IP 55	IP 65	IP 65	IP 65
Connection	G1 ¼“	G1 ¼“	6 mm	6 mm
Dimension	150x150	60x150	60x150	52x20x50 cm
Weight	1,4 Kg	1,4 Kg	2,2 Kg	5 Kg

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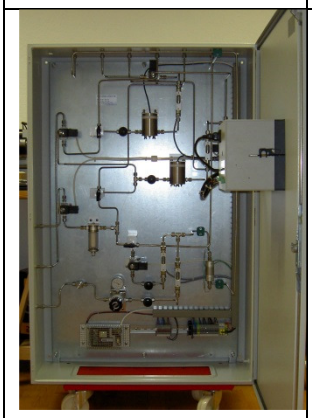
Typ	Dewmaster	Comair	DPS3	Moisturemaster II
Parameter1	Moisture	Moisture	Moisture	Moisture
Parameter2	Temperature/ rH			
Method	Dew Point Mirror	Dew Point Mirror	Dew Point Mirror	P2O5
Range	by 25°C Atmosph. -75°C - +100°C -50°C - +100°C -40°C - +60°C	-90°C - + 50°C TP	-40°C - +95°C	0 – 1500 ppm Freely programmable
Accuracy	+/- 0,2 °C TP +/- 0,1 °C TP opt.	+/- 0,3°C TP	+/- 0,2°C TP	+/- 2 % FSD
Resolution	0,1°C	0,1°C	0,1°C	0,1 ppm
Flow rate	0,25 – 2,5 l/min	0,25 – 2,5 l/min	0,25 – 2,5 l/min	0,25 – 2,5 l/min
Pressure	20 bar	10 bar	10 bar	0,1 – 1 bar
Calibration	Moisture Generator	Moisture Generator	Moisture Generator	Moisture Generator
Response time T 90	1,7°C/ sec.	1°C / sec	1°C / sec.	60 sec. T 90
Gas temperature	-40°C - +100°C			0 – 50°C
Output	3 x 4 – 20 mA /RS232 Alarm	4 – 20 mA/RS232 Alarm	4 – 20 mA/RS232 Alarm	2 x 4 – 20 mA/ 2 x Alarm
Supply Voltage	90V - 220 V	220 V / 24 V	220 V	220 V
Display	Graphic Display	LED	LCD 2-zeilig	Graphic Display
Protection Class	IP 65	IP 65	IP 65	IP 65
Connection	6 mm 3m Cabel Option	6 mm	6 mm	6 mm
Dimension	28x13x43 cm			
Weight	3 Kg	0,3 Kg	1 Kg	1 Kg

PRO-CHEM ANALYTIK

Typ	Dewmaster Koffer	Model 1500	RH-CALibrator	DewGen
Parameter1	Moisture	Moisture	Moisture	Moisture
Parameter2	Temperature/ rH	Temperature/ rH	Temperature/ rH	
Method	Dew Point Mirror	Dew Point Mirror	Dew Point Mirror	Dew Point Mirror
Range	By 25°C -75°C - +100°C -50°C - +100°C -40°C - +60°C	By 25°C -75°C - +50°C -40°C - +50°C -20°C - +50°C	By 25°C -40°C - +50°C TP 5% - 95% rH	By 25°C -80°C - +15°C
Accuracy	+/- 0,2 °C TP +/- 0,1 °C TP opt.	+/- 0,2 °C TP +/- 0,1 °C TP opt.	+/- 0,5 % rH +/- 0,1 °C TP	+/- 0,5 % FSD
Resolution	0,1°C	0,1°C	0,1°C	0,1°C
Flow rate	0,25 – 2,5 l/min	0,25 – 2,5 l/min	0,25 – 2,5 l/min	0,25 – 2,5 l/min
Pressure	20 bar	10 bar	entfällt	entfällt
Calibration	Moisture Generator	Moisture Generator	Moisture Generator	Moisture Generator
Response time T 90	1,7°C/ sec.	1°C/ sec.	1°C/ sec.	1,7°C/ sec.
Gas temperature	-40°C - +100°C	0°C - +50°C	10°C – 50°C	-40°C - +100°C
Output	3 x 4 – 20 mA /RS232 Alarm Datalogger Opt.	4 – 20 mA /RS232 Alarm	4 – 20 mA / 0 – 5V / RS232 Alarm	3 x 4 – 20 mA /RS232 Alarm Datalogger Opt.
Supply Voltage	90V - 220 V	90V - 220 V	100V - 220 V	90V - 220 V
Display	Graphic Display	LED 8 digits	Graphic Display	Graphic Display
Protection Class	IP 65	IP 65	IP 65	IP 65
Connection	6 mm	6 mm	6 mm	6 mm
Dimension	52x20x43 cm	52x20x43 cm	52x20x43 cm	
Weight	3 Kg	3 Kg	3 Kg	3 Kg

PRO-CHEM ANALYTIK

Example Panels and Cabinets

Oxygen % +ppm with Hydogen	Oxygen % + ppm	Oxygen + Hydrogen	Oxygen + Moisture in Hydrogen	Inerting System Oxygen
				
O2 im ppm + %	O2 im ppm + %	O2 in %	O2 in ppm	O2 in %
ppm Cell switched on	ppm Zelle wird zugeschaltet	H2 UEG	Moisture in H2	Inerting
N2 Flash ppm Cell	N2 flash ppm Cell	Aerosolfilter with Condensate	Ex	Filter
H2 Transmitter 3%	Sampleprobe switching	EX		Ex

O2 / H2 / H2O	Moisture with Sample switching	Oxygen and Moisture P2O5	O2 with Sample switching	CH4 Control
H2,O2 und H2O with Pressure reducer	Dew Point at the Oven	O2 + H2O in Helium	O2 System	CH4 Redundant
Aerosolabscheider mit Kondensatablass	Sample switching 4 Zone	Pure gas	Sample switching	Ambient air control
Ex	Pump		Oven-control	

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