

Sample Gas Probe



SGP912

پراب نمونه برداری آنالایزر گاز

ویژگیها :

Highlights :

- ✓ Heated with set point up to 200 °C
- ✓ Status Alarm Ready to work signal
- ✓ Cut off power alarm >30 °C of set point
- ✓ With 2 micron ceramic and SS 316 filter
- ✓ With PID electronic controller (optional)
- ✓ With Pre-Filter for High Dust Applications (optional)
- ✓ Dual sample gas outlet (optional)
- ✓ Purge Gas inlet (optional)
- ✓ Calibration Gas inlet (optional)

- ✓ هیتر دار قابل تنظیم و کنترل تا دمای ماکزیمم 200 °C
- ✓ آلامر اعلام وضعیت آماده بکار
- ✓ آلامر حفاظتی در دمای 30 °C بالاتر از دمای تنظیم شده
- ✓ دارای فیلتر با مش ۲ میکرون از جنس سرامیک و استیل
- ✓ PID کنترلر الکترونیکی (بصورت انتخابی)
- ✓ نصب Pre-Filter (بصورت انتخابی)
- ✓ دارای دو خروجی گاز (بصورت انتخابی)
- ✓ دارای ورودی گاز کالیبراسیون و سیستم Purge (بصورت انتخابی)

کاربردها :

Applications :

Suitable to install in gas analyzer system of Cement, Steel plants

- For gas analyzer system of Kiln inlet combustion control in cement plants
- For gas analyzer system of Calcination combustion control in cement plants
- For gas analyzer system to Prevent explosion of Electrostatic filters in cement plants
- For gas analyzer system of Process control of DRI steel plans
- For gas analyzer system of Metallurgy gas measurements (heat treatments of parts by gas)
- Any other application by request

نصب در سیستم های آنالایزر بر خط گاز در کليه صنایع

- سیستم آنالایزر بر خط گاز در صنعت سیمان، پایش گازهای فرآیندی در دهانه کوره دوار
- سیستم آنالایزر بر خط گاز در صنعت سیمان، در کلساینر
- سیستم آنالایزر بر خط گاز در صنعت سیمان، پایش فرآیند و محافظت از فیلتر الکتروستاتیکی در پیش گرم کن
- سیستم آنالایزر بر خط گاز در صنعت فولاد، کنترل فرآیند کارخانجات احیا مستقیم آهن
- سیستم آنالایزر بر خط گاز در صنعت فولاد، اندازه گیری گاز در صنعت متالوژی و کنترل کیفیت محصول نهایی فولادی (نورد، قطعه سازی، عملیات حرارتی) و سایر کاربردها به سفارش

Power Supply for Heated Version : 220VAC , max 800 Watts

Calibration gas inlet check valve : check valve pressure > 0.7 barg

Purge air pressure : 2-6 barg

Flange Size : DN65 PN6 (2 1/2") SS316 or ANSI 2 " class 150



Technical Information For SGP912

1

How to order								
1 st Generation of Sample gas probe AIEQS	0	Without pre filter (note sample tubes Should be selected)						
	1	With pre filter						
	With pre filter or Without	9		Filter element type S-2K-150. Length: 150mm, material: ceramics, filter porosity: 2µm.				
		8		Filter element type F-3SS150. Length: 150mm, material: SS316, filter porosity: 3µm.				
		7		Filter element type S-2K-75. Length: 75mm, material: ceramics, filter porosity: 2µm.				
		6		Other filters				
	Type of filter	1	one gas sample outlet					
			2	double gas sample out let				
		0		Without				
			1	Blow Back inside housing				
			2	Blow Back inside filter				
		Blow Back	0	Without Gas Calibration inlet				
				1	With Gas Calibration inlet			
			1	0	Without isolation ball-vale from process			
		1		With isolation ball-vale from process				
912	*	*	*	*	*	*	notes	

Example:

912	0	9	1	1	0	0	
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Example of SGP912 - PN: 912091100

1st generation sample gas probe 912 series, without Pre-Filter - with Filter element type S-2K-150. Length: 150mm, material: ceramics, filter porosity: 2µm, single gas outlet with blow back without gas calibration inlet without isolation ball vale from process

Example of SGP Sample Tube: 91TSS0600 , probe tube type /SS. Connection thread: G3/4", length: 1m. Material: SS316.

2

Filters Technical Data



1590S0020

Filter element type S-2K150. Length: 150mm
material: ceramics
filter porosity: 2µm

Manufacturer
M&C- Germany

Ceramic



1590S0015

Filter element type S-2K75. Length: 75mm
material: ceramics
filter porosity: 2µm

Manufacturer
M&C-Germany

Ceramic



SS 316

1590F0126

Filter element type F-3SS150. Length: 150mm
material: SS316
filter porosity: 3µm

Manufacturer
M&C- Germany

Note : other type of filers with other filter porosity also available, optional as order



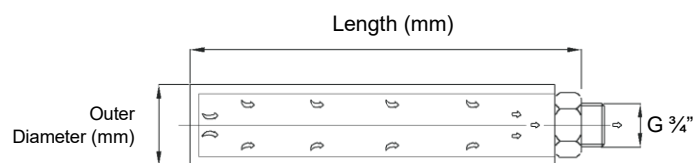
Type of Pre filter

Type of Pre filter

Part-No.	Temp .max. °C	Material Filter / Connection	Filter porosity micron	Dust content g/m ³	Inside volume displacer	Back-purging	Length mm	Filter Outer diameter mm	Connection "G"
1520S9085	600	steel 316/316Ti	2	2-10		Yes	220	46	G 3/4"a
1520S9105	600	steel 316/316Ti	2	2-10	X	Yes	220	46	G 3/4"a
1520S9095	900	Hastelloy-C	2	2-10		Yes	220	46	G 3/4"a
1520S9115	900	Hastelloy-C	2	2-10	X	Yes	220	46	G 3/4"a
1520S9315	200	PTFE / steel 316Ti	3	> 10		Yes ²⁾	400	65	G 3/4"a
1520S9125	600	steel 316/316Ti	2	> 10		Yes	520	60	G 3/4"a
1520S9145	600	steel 316/316Ti	2	> 10	X	Yes	520	60	G 3/4"a
1520S9135	900	Hastelloy-C	2	> 10		Yes	520	60	G 3/4"a
1520S9155	900	Hastelloy-C	2	> 10	X	Yes	520	60	G 3/4"a
1520S9290	600	steel 316/316Ti	2	2-10		Yes	¹⁾ 300	31	G 3/4"a
1520S9300	600	steel 316/316Ti	2	2-10	X	Yes	¹⁾ 300	31	G 3/4"a
1520S9127	500	steel 316/316Ti	3	2-10		Yes ²⁾	220	50	G 3/4"a
1520S9128	500	steel 316/316Ti	3	> 10		Yes ²⁾	520	60	G 3/4"a

¹⁾ Pre-filter optional up to 1000 mm length available. ²⁾ Pre-filter with special construction for efficient back purge.

Manufacturer: M&C- Germany



Pre -Filter Materials:

- ✓ steel 316/316Ti
- ✓ Hastelloy-C

Max 900 °C



1520S9085

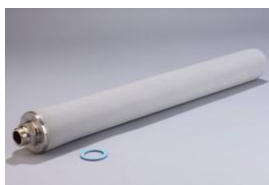
Pre-filter type V20 for SP2000-H. Stainless steel filter without volume displacer. Length: 220mm, 46mm OD. Filter porosity: 2μm, temperature: max. 600°C. Connection: G3/4". Material: SS316.

Max 600°C

Application

continuous gas sampling in processes with High dust loadings

Manufacturer: M&C- Germany



1520S9125

Pre-filter type V20-2 for SP2000-H. Stainless steel filter without volume displacer. Length: 520mm, 60mm OD. Filter porosity: 2μm, temperature: max. 600°C. Connection: G3/4". Material: SS316.

Max 600°C



1520S9135

Pre-filter type V20-2/HC for SP2000-H. Hastelloy filter without volume displacer. Length: 520mm, 60mm OD. Filter porosity: 2μm, temperature: max. 900°C. Connection: G3/4". Material: Hastelloy-X

Max 900°C



Sample tube details

Part. No.	Temperature max. °C	Material Tube / connection part	Length „L1“ ¹⁾ mm	Length „L max“ mm	Connection thread „G“	Tube ø o/i „d1“ mm	Connection ø a „EM“ mm
1520S9070	90	PVDF/ PTFE-gfr.	1000	1500	G 3/4"a	25/21	50
1520S9280	90	PVDF/ PTFE-gfr.	800	800	G 3/4"a	50/44	50
1520S9083	160	PTFE/ PTFE-gfr.	500	500	G 3/4"a	25/15	33
1520S9075	400	Titane	1000	2500	G 3/4"a	25/22	37
1502S9200	600	stainl. steel 316Ti	1000	2000	G 3/4"a	12/10	37
1520S9065	600	stainl. steel 316Ti	1000	2500	G 3/4"a	25/22	37
1520S9067	600	stainl. steel 316Ti	1000	2500	G 3/4"a	25/06	37
1520S9090	900	Hastelloy C4	1000	2500	G 3/4"a	25/22	37
1520S9080	1300	Kanthal / SS 316Ti	1000	1500	G 3/4"a	27/20	37
1520S9077	1100	Inconel	1100	2000	G 3/4"a	25/22	37
1520S9098	1400*	Cr AL ₂ O ₃ / Hastelloy C4	900	900	G 3/4"a	22,5/13	50
1520S9099	1400*	Cr AL ₂ O ₃ / Hastelloy C4	1200	1200	G 3/4"a	22,5/13	50
1520S9086	1400	Silicon nitride-ceramic /1.4571	1000	on request	G 3/4"a	22/29	50
1520S9385	1800	Aluminiumoxyde / ²⁾	1000	1500		24/18	
1520S9395	(600)	/ stainless steel 316Ti			G 3/4"a		50
1520S9397	(900)	/ Hastelloy C4			G 3/4"a		50

* Sample tube with support adapter. Max.Temperature concern the area of the support adapter on approx. 200 mm length depend on material 600/900 °C.

1) Standard

2) Please pay attention to the characteristic feature of ceramic in case of high and changing temperatures!

Manufacturer: M&C- Germany



91TSS0600

probe tube type /SS.
Connection thread: G3/4"
length: 1m
Material: SS316

Max 600°C

Application

continuous gas sampling in processes with low dust loadings and medium temperature

Manufacturer

Arka Behbood Farayand
IRAN

Other materials or executions on request



91TKA1300

probe tube type /KA.
Connection thread: G3/4"o
length: 1m
Material: Kanthal.

Max 1300°C

Application

continuous gas sampling in processes with low dust loadings and High temperature

Manufacturer

Arka Behbood Farayand
IRAN



91TPV0090

probe tube type /PV.
Connection thread: G3/4",
length: 1m.
Material: PVDF, PTFE-GV

Max90°C

Application

continuous gas sampling in processes with low dust loadings and low temperature and chemical corrosion risks

Manufacturer

Arka Behbood Farayand
IRAN

