

270SF (Subflange Design) Gas Sample Probe for General Purpose & Hazardous Areas

270SF Model Extraction Sample Probe (Items marked with ** are not available on FM and ++ for ATEX hazardous area probes All Sample Probes are Configured and Sold WITHOUT probe tubes (Stinger, Quill, Straw)		
Chamber Material (Part Number Configurator: 270)		
SF	316 Stainless Steel <400°F (204°C) (Standard) -Sub-Flange Mount	
CF	Hastelloy C-276 < 400°F (204°C) -Sub-Flange Mount	
TF	316 Stainless Steel w/TFE Coating < 400°F (204°C) -Sub-Flange Mount (no chamber isolation valve option)	
NF	316 Stainless Steel w/ SilcoNert™ 2000 Coating < 400°F (204°C) -Sub-Flange Mount	
SHF	316SS Hi Temp w/Kalrez® < 550°F (288°C) -Sub-Flange Mount	
CHF	Hastelloy C-276 Hi Temp w/Kalrez® < 550°F (288°C) -Sub-Flange Mount	
NHF	316 Stainless Steel w/ SilcoNert™ 2000 Coating Hi Temp w/ Kalrez® < 550°F (288°C) -Sub-Flange Mount	
+ 5 Wks	xxxU	For Chamber Isolation Valve, add a 'U' to the End of the Chamber Material Selection for Unheated
	xxxV	For Chamber Isolation Valve, add a 'V' to the End of the Chamber Material Selection for Heated ***
		Unheated - 316SS Valve, Monel (used with Hast. C-276 chamber) or 316SS SilcoNert™ 2000 Low Temp (heated to 270 °F) - 316SS Valve, Monel (used with Hast. C-276 chamber) or 316SS SilcoNert™ 2000 High Temp (heated to 550 °F) - 316SS Valve, Monel (used with Hast. C-276 chamber) or 316SS SilcoNert™ 2000
Flange Size (Other Sizes Available, Consult the Factory)		
F1	1.5" Flange	
F2	2" Flange	
F3	3" Flange	
F4	4" Flange	
F6	6" Flange	
F1T	1.5" Flange - Top Dead Center	
F2T	2" Flange - Top Dead Center	
F3T	3" Flange - Top Dead Center	
F4T	4" Flange - Top Dead Center	
F6T	6" Flange - Top Dead Center	
Chamber Heat Control		
340	340 F (171 C) Temp Switch (Standard) - Mandatory for FM/ ATEX Approved Units (Standard)	
375	375 F (190 C) Temp Switch***	
550	550 F (288 C) Temp Switch*** (use high temp chamber in Chamber Material)	
R	RTD Only*** (includes 550 °F safety switch)	
K	T/C Only, Type K*** (includes 550 °F safety switch)	
J	T/C Only, Type J*** (includes 550 °F safety switch)	
Blowback Type		
BB	Blowback (Standard)	
BT	Blowback w/ Smart Timer (Same as system voltage, 115 or 230 VAC. BB valve must match)***	
HB	Heated Blowback***	
HT	Heated Blowback w/Smart Timer (Same as system voltage, 115 or 230. BB valve must match)***	
N	No Blowback	
Blowback Port		
S	Standard Blowback	
P	Blowback Probe Tip Filter Only - No Chamber Blowback	
N	No Blowback	
Blowback Valve		
24	24 VDC Actuator	
1	115 VAC Actuator	
2	230 VAC Actuator	
A	Pneumatic Actuator	
N	No Blowback	
Enclosure (If Heatshrink Boot is other than 3", identify size after enclosure designator)		
2	0.75" - 1.6" (19.05mm - 40.64mm) Dia.	
3	(Standard) = 1.38" - 2.75" (35.05mm - 69.85mm) Dia.	
4	1.43" - 3.57" (36.32mm - 113.54mm) Dia.	
FG	Fiberglass Enclosure (Standard), 3" Boot	
FI	Fiberglass Enclosure, Insulated, 3" Boot	
SS	Stainless Steel Enclosure, 3" Boot	
SI	Stainless Steel Enclosure, Insulated, 3" Boot	
Enclosure Heat Control (Heating requires Insulated Enclosure)		
N	No Enclosure Heat (Standard)	
T	225 F (107 C) Temp Switch** (ATEX Enclosure uses a 150 F (65 C) T-Stat)	
K	T/C Only, Type K***	
J	T/C Only, Type J***	
R	RTD Only***	
Power/Classification		
1	115 VAC General Purpose	
2	230 VAC General Purpose	
1FM	115 VAC Approved for Class I, DIV. II, Grp. B, C, D (FM/ CSA)	
2FM	230 VAC Approved for Class I, DIV. II, Grp. B, C, D (FM/ CSA)	
1EX	115 VAC ATEX Approved for Zone IIC (TUV)	
2EX	230 VAC ATEX Approved for Zone IIC (TUV)	
Filter		
2	2µm Ceramic (Standard)	
1	1µm Ceramic	
C	0.1µm Ceramic coated	
S	2 µm Sintered 316SS	
Temperature/Alarm (do not choose R/K/J option if used above)		
F	Failsafe (Open on Alarm) (Standard)	
C	Closed on Alarm	
R	100 Ohm RTD (Includes Failsafe Alarm Contact)	
K	Type K ThermoCouple (Includes Failsafe Alarm Contact)	
J	Type J ThermoCouple (Includes Failsafe Alarm Contact)	
N	No Temperature Alarm	
Additional Options Shown on Next Page		
270	-SF -F4 -340 -BB -S -24 -FG -N -1 -2 -F -N -N -N -N ← Sample Part No	

Ammonia Converter (General Purpose area only)	
N	No Ammonia Converter (Standard)
A	Integrated on the Right Side of the 270**++
Extended Length Probe Tube Support (not with HPA)	
N	Standard Probe Tube Support
2C	Extended Length Probe Tube Support
2S	x = Length in Ft (2,3,4,5)
2T	y=Material of Construction
3C	S = 316SS (up to 1100°F (593°C))
3S	T = 310SS (up to 1600°F (871°C))
3T	C = Hast C-276 (up to 1900°F (1038°C))
4C	
4S	
4T	
5C	
5S	
5T	
Heated Probe Adapter (adds Terminal Blocks to	
N	No HPA (Standard)
K	Type K T/C Terminal Blocks
J	Type J T/C Terminal Blocks
R	RTD Terminal Blocks
S	Standalone HPA - No Terminal Blocks
Z-Purge Panel	
N	No Z-Purge (Standard)
+1 Wk	H Mounted on Top of 270**++
	V Mounted on Side of 270**++

Drawing P1078

Notes: No chamber isolation valve option with STF chamber
 C-276 chamber includes silconert coated cal gas check valve and tubing
 Teflon chamber includes silconert coated cal gas check valve and tubing