## AMC Portable Leak Detection System

For HF, HCl,  $NH_3$  and  $H_2S$  analyzers

## ΡΙСΔ R R O

- Simultaneous, continuous flush sequencer module provides very fast sample point scanning cycles
- Optimized performance for Picarro SI2000
   analyzers
- Fully user-programmable leak search mode

- Configurable for 8 or 16 sample ports
- 1 hour backup Uninterruptible Power Supply
- Recovery from PPM level leak events to normal cleanroom levels in just minutes

The **Picarro AMC Portable Leak Detection System** utilizes one or two 8-port sequencer modules to mobilize Picarro gas analyzers for fast detection and confirmation of contamination events. The Portable System has been designed to optimize response time in the presence of reactive gases with the lowest memory retention in the valves, connectors, sample lines and sequencer components. The Sample Sequencer Module utilizes a mass flow controller and a fast flow, high volume vacuum pump to quickly draw samples up to 50 meters away. Our robust and reliable components assure the best performing AMC Leak Detection System with our Picarro SI2000 Series analyzers.



## Picarro Sample System Status Screen

PICARRO											2018 14:	-01-05 26:27						
Instrument	Date / Time	Model [SI2108]				Model [SI2306]					Model [SI2307]							
Name		Hct	H2O	Temp	Press	HF	NHo	H2O	Temp	Press	H2S	Press						
Unit		ppb	ppm	C.	Torr	ppb	ppb	ppm	C	Torr	ppb	Torr						
[CH-1] Port.01-08	O Measuring 14:26:26	0.304	0.409	80.0	140.439	0.042	0.419	0.225	45.0	139.979	0.000	0.000				i.		
LINE #01	2018-01-05 14:20:11	0.311	0.399	80.0	139.934	0.042	0.425	0.227	45.0	139.958	0.000	0.000				-	- 1	
LINE #02	2018-01-05 14:20:31	0.310	0.386	80.0	139.894	0.043	0.416	0.225	45.0	139.909	0.000	0.000				-	÷	
LINE #03	2018-01-05 14:20:51	0.311	0.403	80.0	140.031	0.043	0.411	0.227	45.0	140.060	0.000	0.000				¥.		- i
LINE #04	2018-01-05 14:21:11	0.309	0.403	80.0	140.004	0.042	0.42	ne Information	Item In	formation 0	perational informat	ion User Gro	up Schedule	Leak search	Schedule	40		
LINE #05	2018-01-05 14:21:31	0.312	0,400	80.0	140.014	0.043	0.40											
LINE #06	2018-01-05 14:21:51	0.313	0.402	80.0	140.002	0.042	0.41											
LINE #07	2018-01-05 14:22:11	0.313	0.403	80.0	139.975	0.042	0.40	Information		sample and	samela and sam	nes teo sin	-	meter wat a	ameta			11
LINE #08	2018-01-05 14:22:31	0.312	0.400	80.0	139.994	0.042	0.40	POR		PL	C Prog	gram	- Set	Up				
[CH-2] Port.09-16	2018-01-05 14:23:11	0.314	0.403	80.0	139.995	0.042	0.41	or		Port Na	me	Act	live	Sampling t	ime V	Waiting tin	ne	Ý
LINE #09	2018-01-05 14:23:51	0.312	0.401	80.0	139.886	0.042	0.41	or Port (	Line Informat	ion Diem Inf	ormation Operation	al Information U	liver Group Schedu	de Leak search	Schedule	Run on a partie	culiar day	Keyboard
LINE #10	2018-01-05 14:24:11	0.311	0.403	80.0	139.980	0.042	0.42	Port			Leak	Sear	ch S	ched	ule			
LINE #11	2018-01-05 14:24:31	0.308	0.405	80.0	139.984	0.042	0.42	or Port (	01 5	Port 1	start 🧹						Return	Modified
LINE #12	2018-01-05 14:24:51	0.307	0.400	80.0	140.017	0.041	0.43	or Port i	02 1	Port 2		×						Leak Scan
LINE #13	2018-01-05 14:25:11	0.309	0.405	80.0	140.011	0.041	0.44	Port	03 1	fort 3		-						
LINE #14	2018-01-05 14:25:31	0.308	0.402	80.0	139.938	0.041	0.43	or Port (	05 1	ort 5			-	~				
LINE #15	2018-01-05 14:25:51	0.310	0.401	80.0	140.020	0.042	0.42	or Port I	06 1	Port 6				-				USL Schedule
LINE #16	2018-01-05 14:26:11	0.307	0.403	80.0	140.000	0.042	0.422	Ports	07 1	fort 7					-			* USL #1
• Measure flow	CH-1] P     Auto control 6.0     On     Current Data     O.00	ort01~08 F Control setup Control [14:19: Control [14:26: Control	low control %]-> 20.00 [6 31] %]-> 3.33 [1 11] %]-> 20.00 [6	.00] .00] .00]	[CH-2] to control	Port09 ~ 16 0.0 Cor setup [14 Cor [14 Cor	Flow control trol[%]-> 3.33 [ 1 :22:31] trol[%]-> 23.33 [ 1 :23:11] trol[%]-> 3.33 [ 1	All Port Me .0( .00]	CB 10 CD Mc 10 Mc 11 Mc 12 ALL (CP 13	fort 8 ax Port ax Port ax Port 4-1 or CPH2)	End		•			•	Return	

## AMC Leak Detection and Monitoring System Software

User-selectable default and customizable programs are available for setting multiple sample point scanning and search modes. Default sample point cycle times are recommended at approximately 30 seconds each but the Sequencer Module can be set to scan through each 8-port module at two to three times this rate or faster, if required. User-programmed scenarios can also be programmed to optimize the locations of leak events, or for monitoring the leak size over time (from low level PPT concentrations into the PPB levels), and for monitoring the potential leaks over as many as 16 sample points simultaneously. Both automatic and manual modes are available for leak search schemes. Preventive maintenance cleaning cycles can be programmed on a periodic basis and System Status screens will easily indicate each sample point composition and unique pressure & temperature readings. With the high flow, continuous flush design of each Sequencer module and proper annual sample line maintenance, frequent or excessive flushing of long distance sample lines should never be necessary - even after a significantly high concentration gas leak event in the PPM concentration levels.

A0316 Sample System Specification								
A0316-08	A0316-16							
300 W	500 W							
100-110 V, 220-240 V, 50/60 Hz								
5kVA Supplied, 1 hour backup								
3/8" PFA								
23.6" W x 37.6" D x 57" H (60 x 95.5 x 145 cm)								
396 lbs. (181 kg)								
60 liter/min								
5-40°C								
<99% RH non-condensing								
	A0316-08 300 W 100-110 V, 220- 5kVA Supplied, 3/8" 23.6" W x 37.6" D x 57' 396 lbs. 60 lite 5-4							

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