Continuous Process Monitoring AMC System For HF, HCl, NH, and H,S analyzers

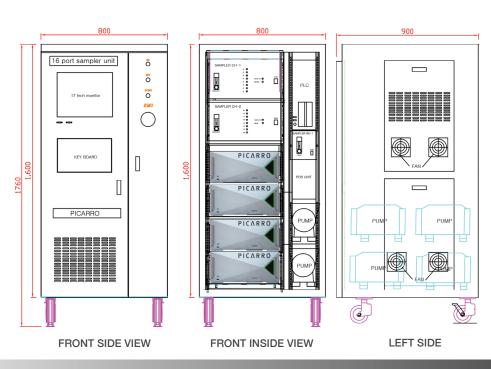
PICARRO

- AMC system designed exclusively to support Picarro analyzer operation
- Simultaneous, continuous flush sequencer module provides very fast sample point scanning cycles
- Fully user-programmable leak search mode

- Configurable for 8, 16, 24 or 32 sample ports
- Recovery from PPM level leak events to normal cleanroom levels in just minutes
- Optimized performance for Picarro SI2000 analyzers

The Picarro AMC Process Monitoring System dramatically enhances the value of Picarro gas analyzers by expanding the area of coverage of our analyzers. The 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 draw sample as far away as 200 meters. The robust sequencer design is ideal for fast switching between different stocker locations, and for covering large areas in the fab or sub-fab and plenum areas. These highly reliable components assure the best performing system for AMC Process Monitoring with our Picarro SI2000 Series analyzers.





Continuously monitor up to 32 sampling points for real-time airborne molecular contamination event confirmation!

Picarro Sample System Status Screen PICARRO Instrument Date / Time Model [SI2108] Model [SI2307] Model [SI2306] Het H2O H2O Temp Press HF NHa Temp Press Press ppb ppb ppb ppb ppm ppm 14:26:26 [CH-1] Port.01-08 0.304 0.409 140.439 0.042 0.419 45.0 0.000 0.000 80.0 0.225 139.979 2018-01-05 14:20:11 LINE #01 139.934 45.0 2018-01-05 14:20:31 0.310 LINE #02 0.386 80.0 139.894 0.416 0.225 45.0 0.000 0.000 2018-01-05 14:20:51 LINE #03 0.311 0.403 80.0 140.031 0.043 0.411 45.0 2018-01-05 14:21:11 LINE #04 0.309 0.403 Leak search Schedule 2018-01-05 14:21:31 0.312 0.043 LINE #05 140.014 Line Information 2018-01-05 14:21:51 0.313 LINE #06 0.402 80.0 140.002 0.042 0.4 2018-01-05 14:22:11 139.975 0.042 LINE #07 0.313 0.403 0.40 80.0 PLC Program - Set Up 2018-01-05 14:22:31 0.4 2018-01-05 14:23:11 0.314 [CH-2] Port.09-16 0.403 80.0 139.995 2018-01-05 14:23:51 0.312 **LINE #09** 0.401 80.0 139.886 2018-01-05 14:24:11 Leak Search Schedule LINE #10 0.311 0.403 80.0 139.980 2018-01-05 14:24:31 0.308 0.042 0.4 LINE #11 80.0 2018-01-05 14:24:51 0.307 LINE #12 0.400 80.0 140.017 0.041 0.43 Port • 2018-01-05 14:25:11 LINE #13 0.309 0.041 0.4 0.405 80.0 140.011 Port UNI 0.402 139.938 LINE #14 80.0 2018-01-05 14:25:51 140.020 LINE #15 0.310 0.401 80.0 0.42 2018-01-05 14:26:11 0.307 LINE #16 0.042 0.403 140.000 ■ Measure flow ■ [CH-1] Port01 ~ 08 Flow control ■ [CH-2] Port09 ~ 16 Control[%]-> 20.00 [6.00] [14:19:31] Control[%]-> 3,33 [1.00] Control[%] > 3.33 [1.0 [14:22:31] Control[%] > 23.33 [7.00] [14:23:11] Control[%] > 3.33 [1.00] 0.00 0.00

AMC Process Monitoring System Software

User-selectable default and customizable programs are available for setting multiple sample point scanning & 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 system 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 32 sample points (or more) 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.

| A0317 Sample System Specification | | | | |
|-----------------------------------|--|----------|----------|----------|
| Model Numbers | A0317-8 | A0317-16 | A0317-24 | A0317-32 |
| Power Consumption | 300 W | 500 W | 700 W | 900 W |
| Power Requirements | 100-110 V, 220-240 V, 50/60 Hz | | | |
| Sampling Line | 3/8" PFA | | | |
| Configuration | Stationary Rack | | | |
| Dimensions | 31.5" W x 36" D x 70" H (80 x 90 x 178 cm) | | | |
| Weight | 485 lbs. (220 kg) | | | |
| Sample Pump Max. Flow Rate | 60 liter/min | | | |
| Operating Conditions | 5-40°C | | | |
| Ambient Humidity | <99% RH non-condensing | | | |

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