

Model 920 Multi-Gas Analyzer

Operator's Guide *With Essential Health and Safety Requirements*

- a. Install (1) new o-ring (P/N 100-1911) in the groove on the flat surface of the Reflector Block.

Hold the Measuring Cell vertically with the Reflector Block end up and install (1) new o-ring (P/N 100-1911) and Window (P/N 300-0281).

Orient the Reflector Block with its “peak line” at 90° to a line through the fittings and place it on the Measuring Cell. Ensure the Window does not slide out of position when the Reflector Block is placed against the Measuring Cell.



It is critical to reassemble the Reflector Block in the exact orientation as it was assembled at the factory.

Secure the Reflector Block to the Measuring Cell with (3) M4 x 20 screws. Tighten the screws evenly.

- b. Install (1) new o-ring (P/N 100-1911) in the Heat Transfer Block.

Hold the Measuring Cell vertically with the Heat Transfer Block end up and install (1) new o-ring (P/N 100-1911) and Window (P/N 300-0281).

Orient the Heat Transfer Block with the Heat Transfer Block Plug access hole at 90° to a line through the fittings (the two larger-diameter holes in the Measuring Cell must align with the two larger-diameter holes in the Heat Transfer Block). Connect it to the Measuring Cell with (3) M4 x 12 screws. Tighten the screws evenly.

- 8. Reconnect the Measuring Cell to the Optical Bench and secure it to the Cell RTD on the Oven Heater Plate:

- a. Orient the Measuring Cell with the Reflector Block to the left, the sample tube fittings vertical, and the Heat Transfer Block Plug access hole facing away from the analyzer. Reconnect the Measuring Cell to the Cell Extension (on the Optical Bench) using (3) M4 x 12 screws. Tighten the screws evenly.

- b. Swing the Optical Bench/Measuring Cell toward the Oven.

Align the hole in the Heat Transfer Block with the Cell RTD tip on the Heater Plate and carefully push the Measuring Cell toward the RTD. Adjust the entire Measuring Cell/Optical Bench Assembly as required to firmly seat the Measuring Cell against the Heater Plate.

Optical Bench Spare Parts, 120 VAC/240 VAC Analyzer

Part No.	Description	QTY (1 Year)	QTY (2 Year)
	(*) Note: Lamp type is dependent on species being measured.		
100-0688	SO2 Applications Magnesium (Mg) Source Lamp (Optical Bench Assembly)	1 [see (*) Caution]	2 [see (*) Caution]
300-2070	H2S Applications Cadmium (Cd) Source Lamp (Optical Bench Assembly)	1 [see (*) Caution]	2 [see (*) Caution]
300-1528	O-Ring PUR (Chopper Motor Drive Belt in Optical Bench)	1	2
300-9437	Bearing, Chopper Wheel (Chopper Assembly in Optical Bench)	0	2

Measuring Cell Spare Parts

Part No.	Description	QTY (1 Year)	QTY (2 Year)
300-0281	Cell Window, Fused Silica (Measuring Cell)	4	6
100-1911	O-Ring, Size 125, Baked Teflon Coated Aflas (Measuring Cell)	8	16

Expo Technologies MiniPurge® System With eTimer Spare Parts

AMETEK recommends replacing the Battery Pack in the Expo Technologies MiniPurge® System, which provides power to the system's electro-pneumatic timer, every three years to ensure the MiniPurge® System continues to properly purge the AMETEK analyzer's electronics enclosure.

Part No.	Description	QTY (3 Year)
301-4356	Battery Pack, Intrinsically Safe for Expo Technologies MiniPurge® System with eTimer	1