

Phymetrix Self Calibrating Sample System

- Self Calibrating Automatically, based on internal battery backed clock calendar and NIST traceable calibration gas.
- Through-The-Glass Touch Sensitive Buttons. Allow operating the analyzer without the need to open the ExMa explosion proof enclosure.

Mechanical:

- Filters are permanently piped (inlet, outlet and drain) for easy maintenance. The filter bowl can be removed by hand, without un-doing any pipe work, as the drain is in the head. This is achieved by a uniquely designed filter housing with the bowl up.
- Each Drain has 0.004" filtered screened orifices, allowing only a small amount of gas to flow out (e.g. at 800 psig approximately 9.5 SCFH) and assuring that if liquids collect in the filter bowl, the liquids will drain out. No expensive needle valves and flow meters required on drain lines.
- Gas inlets and outlets are 1/4" Swagelok bulkheads, with internal backup retainers.
- Our systems are designed with straight NPT to swage adapters only, thus component and pipe positions are independent of NPT fitting orientation. Other manufacturers depend on the orientation of the NPT fitting to position the sample system components, therefore the NPT fittings are either over or under tightened, which results in leaks and thus erroneous measurements.
- Regulator pressure relief safety valve.
- A temperature Stabilization Coil is utilized to compensate for any Joule–Thomson cooling that may occur from reducing the gas pressure.
- Haz Loc approved all stainless steel solenoid valve.

Electrical:

- Easy access electrical junction box with two 3/4" NPT hubs for external conduit connection.
- ExMa can be powered by 85 to 264VAC or 9 to 28VDC.
- Sink or Source 4/20mA.
- ExMa can provide relay outputs.
- Easy removal of analyzer for recalibration / repair. Connectorized with Haz Loc approved connector.

