

Generator Gas Manifold (GGM) System

E/One's Generator Gas Manifold (GGM) System

E/One's focus on hydrogen-cooled generator gas systems begins at the point where cooling and purge gases enter the generator. Our Generator Gas Manifold (GGM) system includes the ASME Section B31.1, Division 1, or PED, Generator Gas Manifold, and any one of a range of standard or custom designed intrinsically safe displays.

The Manifold

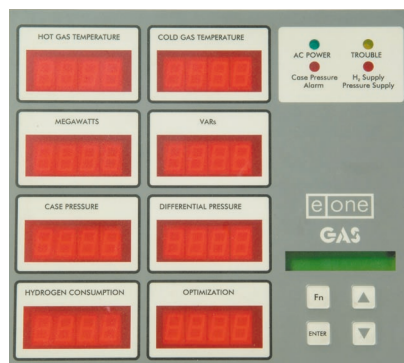
From the point where gas is received from the plant's bulk supply or bottle manifold, E/One's compact GGM monitors critical H₂ and CO₂ supply pressures, and regulates the hydrogen supply to the appropriate machine gas pressure. Manual isolation valves, arranged for easy end-user access, allow operators to control all facets of the purge process from a single location. A safety spool is also an integral feature of the GGM and assures that dangerous mixtures of H₂ and Air are avoided.

GAS & Custom Displays

E/One's GGM system is typically incorporated in a Gas Station™ (although it is also available as a stand-alone system) and is combined with a standard GAS display, or a customized configuration that can include a range of annunciator points relating to both the gas and seal oil system. Local display of critical values in the hazard area, and interface with the control room DCS, are both standard features in any of E/One's GAS displays.

AUX Displays

E/One recognizes that gas, seal oil, and control system retrofits often involve the replacement of annunciator panels. E/One has configured a number of these compact, intrinsically safe auxiliary (AUX) displays that can be installed in hazardous or safe areas. Contact E/One to discuss your requirements and to learn more about this economical way to configure precisely what you need – or want – for your next outage.



Specifications GGM

Operating fluid	Gaseous H ₂ , CO ₂ , Air
Maximum pressure	150 psig
Maximum process gas temperature	150 F
H ₂ and CO ₂ supply pressure to GGM	125 +/- 10 psig
H ₂ and CO ₂ supply pressure relief valves	are provided and set at 150 psig
Generator casing pressure relief valve	Set at 10-15 psig above casing pressure
Ambient temperature range	-20 F to 125 F
Ambient location	Class 1, Division 1, Group B Zone 2 Hydrogen (NEC/NFPA/IEC)
Construction	
Manifold Assembly	Carbon steel, SCH 80, SCH 40 Conforms to ASME B31.1 Power Piping Code
H ₂ , CO ₂ , Air supply connections	1", ANSI 150# class raised-face flanges
Gas delivery connections	2", ANSI 150# raised-face flanges
Isolation valves	Fire-safe, 3-piece ball valves with stainless-steel trim

*Environment One Utility Systems
is an ISO 9001 registered firm.*

(+1) 518.346.6161 ext 3028
Fax (+1) 518.346.4382
www.eone.com/solutions



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