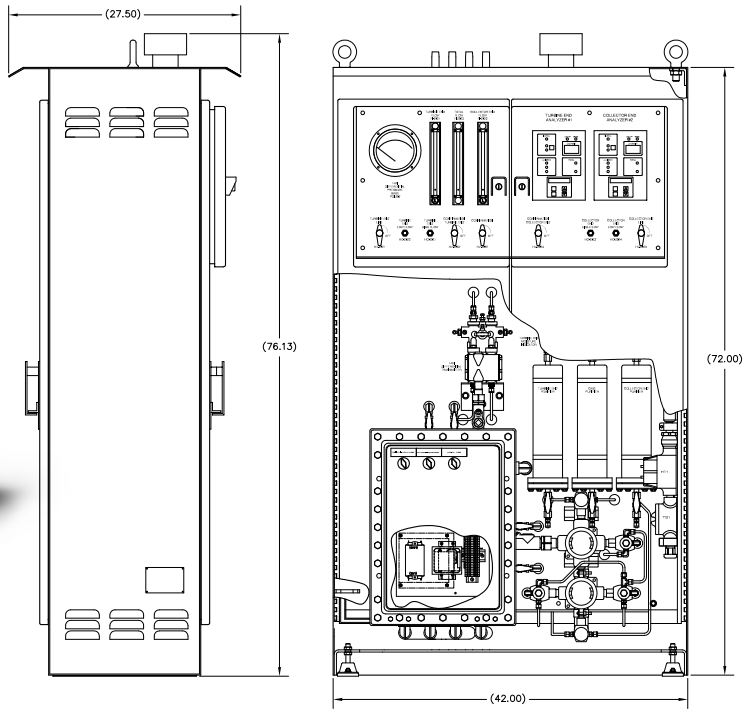
DHCP

NEMA AND RACK CONFIGURATIONS

Maintaining hydrogen purity is critical to assuring proper performance, profitability and personnel safety levels.



SPECIFICATIONS

MEASUREMENT CHARACTERISTICS

Technology Principle	Thermal Conductivity
Gas Analyzer Sensing Unit	Switchable – Triple Range 70% to 100% H2 in Air 0% to 100% H2 in CO2 0% to 100% Air in CO2
Resolution	+/- 0.1%
Accuracy	+/- 0.5% F.S. on H2 in Air +/- 1.0% F.S. on H2 or Air in CO2
Linearity	+/- 1.0% F.S.
Drift	<0.2%/month

ELECTRICAL CHARACTERISTICS

Input Voltage	120 VAC 50/60 Hz
(see nameplate)	220 VAC 50/60 Hz (optional)
Area Classification	Class I, Zone 2, Group IIB + H2
Outputs	4-20 mA current output
Alarm Levels	Alarm and Warning levels are adjustable
Relay Contact Rating	0.5A @ 120VAC 1A @ 30VDC (resistive) 0.005A @ 125VDC (resistive)
Data Retention	Lithium battery supported RAM, 10 years minimum
Indicators	AC Power, Trouble, Normal (H2 in Air), Purge (H2 in CO2), Purge (Air in CO2), Calibrate H2, Calibrate CO2, Calibrate N2, one 3-character LED numeric display, one 16-character LCD display

MECHANICAL CHARACTERISTICS

Overall Dimensions	36" w x 64" h x 19" d (Rack) 42" w x 72" h x 27.5" d (NEMA 3R)
Weight	475 lbs (standard) /1100 lbs (NEMA 3R)
Ambient Temperature	32 F to 149 F (0 C to 65 C)
Maximum Pressure	100 psi

Environment One's Dual Hydrogen Control Panel (DHCP) was designed specifically for monitoring GE's scavenging seal oil generators. The DHCP contains two independent analyzers that monitor the turbine-end seal drain enlargement and collector-end seal drain enlargement. Additionally, it has valving for manual or DCS operation for checking casing purity of the generator.

The DHCP has the ability to automatically increase the amount of hydrogen gas scavenged from the generator, thus maintaining hydrogen purity at an optimum level.

The DHCP works with GE's Mark IV, Mark V and Mark VI control systems.

FEATURES AND BENEFITS

- Drop-in replacement of GE's hydrogen control cabinet
- Designed for hazardous location operation
- Digital displays/warnings/alarms

eone UTILITY SYSTEMS Generating Solutions™

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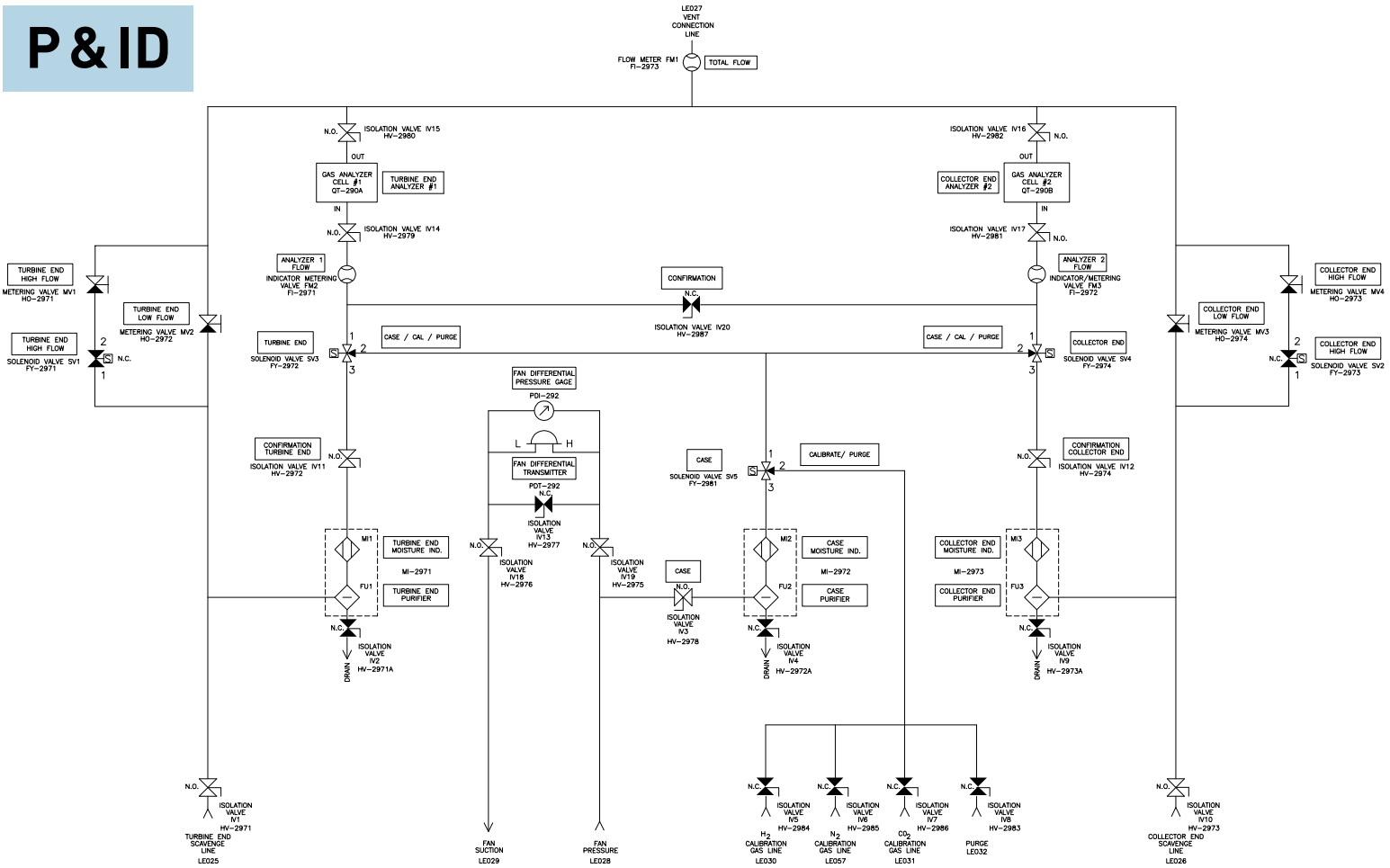
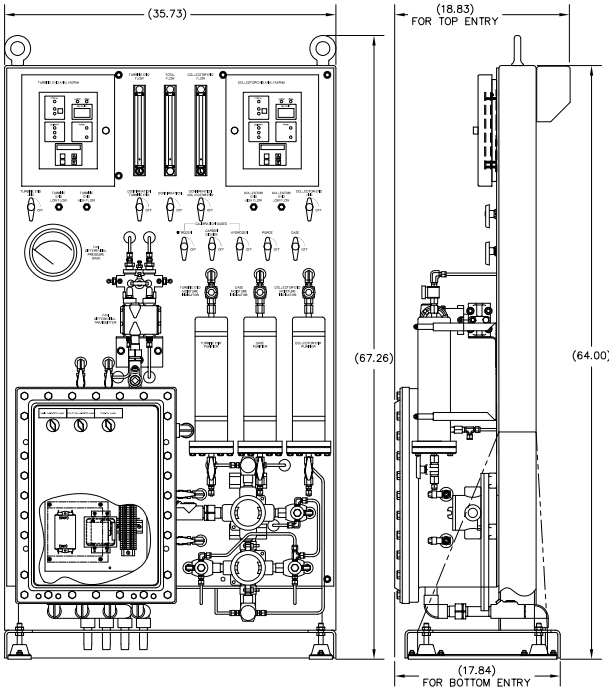
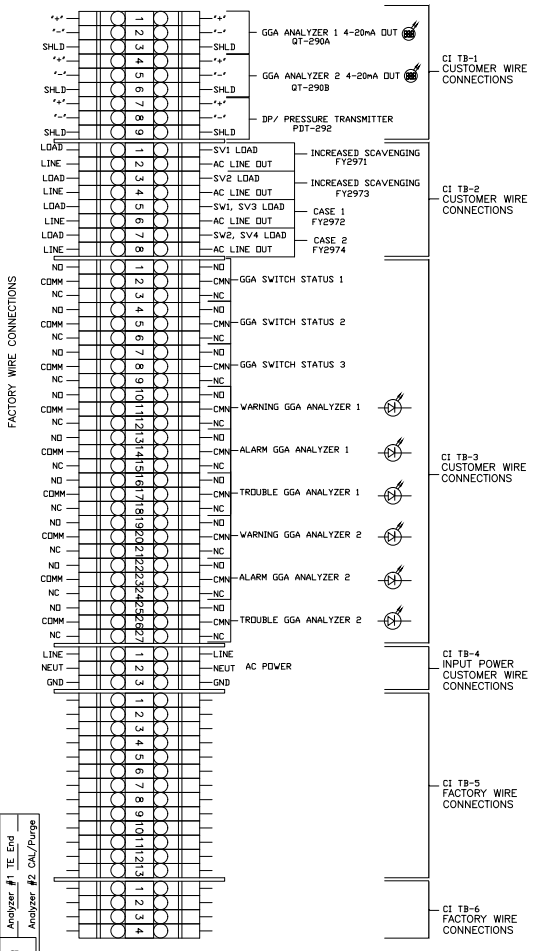


RACK OUTLINE



CUSTOMER INTERFACE



ANALYZER STATUS	Analyzer #1 TE End	Analyzer #2 CE End	Analyzer #1 Case	Analyzer #2 CE End	Analyzer #1 Case	Analyzer #2 Case	Analyzer #1 TE End	Analyzer #2 Case	Analyzer #1 CAL/Purge	Analyzer #2 CE End	Analyzer #1 CAL/Purge	Analyzer #2 CAL/Purge	Analyzer #1 TE End	Analyzer #2 CAL/Purge
Switch #1 Status Analyzer	TE		CASE CAL PURGE		CASE CAL PURGE		TE		CASE CAL PURGE		CASE CAL PURGE		TE	
Switch #2 Status Analyzer	CE		CE		CASE CAL PURGE		CASE CAL PURGE		CE		CASE CAL PURGE		CASE CAL PURGE	
Switch #3 Status Case/CAL Purge	CASE		CASE		CASE		CASE		CAL PURGE		CAL PURGE		CAL PURGE	

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