 TORUS	· Owner OXYGEN ANALYZER AT-144	Document No.	MEA-DS-006		
		Revision / Date	A · September 29, 2026		
		Issue purpose	Issued for Review		
MEASUREMENT · OXYGEN ANALYZER AT-144					
Rev.	Date	Revision description	Prepared	Reviewed	Approved
A	2026-09-29	Issued for Review			

NOTES

1. This sheet defines the trace oxygen analyzer used for tariff compliance and gas quality shut-in.
2. Values marked typical are budgetary. The vendor shall confirm them with its proposal and final data (HOLD H-15).
3. Units are US customary. Pressures are gauge unless stated as absolute; standard volumes are at 14.73 psia and 60 °F.
4. Operating cases C1 to C7 are defined in  GEN-DB-001, Basis of Design, Section 6.

GENERAL

Table 1-1: General Data

Item	Value	Item	Value
Tag	AT-144	Service	Trace oxygen, tariff compliance
Technology	Electrochemical fuel cell, ppm range	Location	Analyzer shelter B-101
Area classification	Interior of B-101, Class I, Division 2, Group D, T3 ( GEN-DB-001 Section 8.1); electrical to confirm	Quantity	1

PROCESS AND PERFORMANCE

Table 1-2: Process and Performance

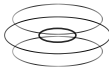
Item	Requirement
Sample	3/8"-G-1080-T1, 25 psig, 0.5 SLPM, typical, vendor to confirm (HOLD H-15)
Range	0 to 100 ppmv (auto-ranging 0 to 10 and 0 to 100)
Alarm	High at 10 ppmv ( GEN-DB-001 Section 5.2); pre-alarm at 5 ppmv
Accuracy	±2 % of range, typical, vendor to confirm (HOLD H-15)
Interferences	CO2 up to 2 mol %; the sensor shall be CO2 tolerant
Response	T_{90} less than 60 s

UTILITIES AND OUTPUTS

Table 1-3: Utilities and Outputs

Item	Requirement
Zero and span	Nitrogen zero (99.999 %); span about 50 ppmv O2 in nitrogen, certified
Sensor life	12 to 24 months, typical, vendor to confirm (HOLD H-15)
Power	24 VDC from the station UPS ( GEN-DB-001 Section 9.8); 120 VAC only where stated
Outputs	4-20 mA HART, Modbus, alarm relay



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OPEN ITEMS

Table 1-4: Open Items

HOLD	Item	Responsible party
H-13	Oxygen limit of the receiving pipeline operator	Receiving pipeline operator
H-15	Vendor data	Vendor

