

# 212 LOW-FLOW VAPOR MONITORING SYSTEM



## USING THE 212 LOW-FLOW VMS:

- ▶ **Standardizes** the process for collecting soil vapor samples
- ▶ **Establishes** stepwise procedures for measuring ambient pressure, shut-in testing, seal testing, pneumatic testing, purging, helium tracer testing, and collecting laboratory samples
- ▶ **Allows for quantification of soil gas permeability**, a critical property in defining the vapor intrusion pathway
- ▶ **Permits control of** soil vapor extraction rate to ensure that undue stress, mobilization of vapors, or deadhead conditions do not occur during purging or sample collection
- ▶ **Saves costs** by ensuring investments of resources and equipment used during vapor monitoring
- ▶ **Provides accurate, representative, and defensible data** that can stand up to legal scrutiny

The 212 Low-Flow VMS was developed by our experts over decades of collecting thousands of samples at some of the most challenging and litigious vapor intrusion projects in the world. Our equipment is compact, portable, and intrinsically safe. The Low-Flow VMS allows for convenient transport and use, even in hard-to-reach locations such as basements and crawlspaces.

The product comes with videos and written procedures developed to ensure that *any* practitioner can conduct soil vapor monitoring and collect defensible samples for field or laboratory analysis. Using the 212 Low-Flow VMS in conjunction with these procedures eliminates uncertainty in collecting soil vapor samples, limiting the potential for leakage and improving the representativeness of the collected sample. This equipment and associated processes greatly reduce the potential for misinterpretation of the vapor intrusion pathway into structures.



## WHAT PRACTITIONERS ARE SAYING:

"After watching the training video, I was *confident* that the first time I used it the samples collected would meet the necessary quality goals."

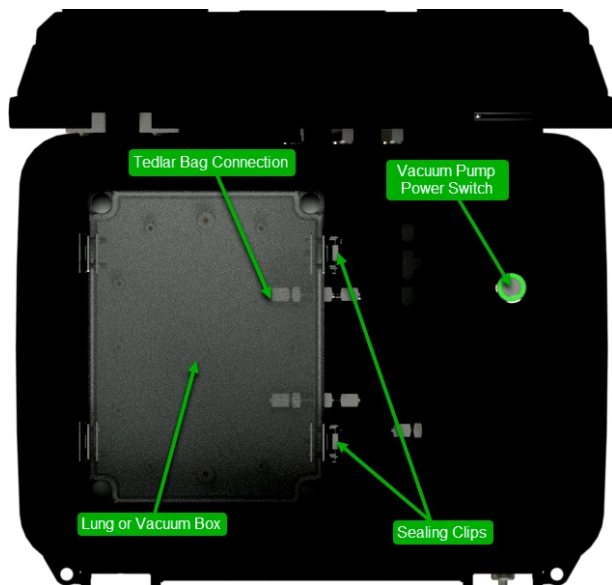
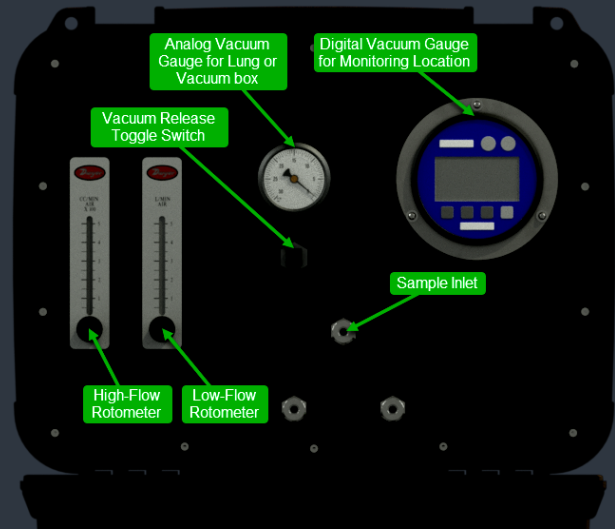
– Will E.

"...*critical* in the defense of the soil vapor monitoring data and Conceptual Site Model during a class action lawsuit brought against our client."

– Mitch M.

"...*compact and durable* compared to our old systems. This has greatly reduced the time and fatigue of collecting vapor samples for my team."

– Elizabeth T.



### SPECIFICATIONS

Unit dimensions:	14.9 x 12.1 x 9.6 in (38 x 31 x 24 cm)
Unit rating:	MIL-STD-810F, IEC 60529: IP67, MIL-STD-3010C, ATA-300
Unit weight:	23 lbs (10.4 kg)
Operating temperature:	32°F - 104°F (0°C - 40°C)
Unit power:	Rechargeable 12V 5A battery
Charger cable rating:	IP67, NEMA 6P
Digital gauge power:	2 AA alkaline batteries
Digital gauge accuracy:	0.25% Full Scale, terminal point
Digital gauge range:	-14.7 to 0 psi
Flowmeter accuracy:	±4%
Flowmeter range:	0 to 5 L/min
Electrical enclosure approval:	UL
Electrical enclosure NEMA rating:	4, 4X, 6, 6P, 12, 13
Electrical enclosure IP rating:	IP67, IP68
Electrical enclosure protection:	EMI / RFI