

## TruViu Gas Manifold



The TruViu™ Gas Manifold design leverages the well-known “gas stick” concept used in semiconductor process tools, so that the gases only contact clean metallic surfaces. The Gas Manifold interfaces easily with the TruViu utility tower family. The Finesse gas control system consists of up to six mass flow controllers and associated solenoid valves attached to a manifold: it can control the flow rates of up to six different gases, and direct each gas to one of three independent headers/spargers. The TruViu Gas Manifold maximizes safety (no gas comes in contact with electrical wiring), maintains UL compliance, and facilitates planned maintenance of the system.

The Finesse service group can provide higher precision calibration of the mass flow controller (MFC) units in the TruViu gas stick. Specifically, normal factory calibration for a MFC having a 0 to 12 slpm range involves a 32-point linearization of the MFC flow over evenly spaced points within the full range. If the MFC is then used only in the 0 to 3 SLPM range, the linearization curve contains only 9 points of the original calibration. The Finesse “high precision” calibration option involves using additional calibration points to generate the linearized curve in the operating range of interest. For example, 24 points would be used in the 0 to 3 SLPM range, and the remaining 8 calibration points would be used in the 3 to 12 SLPM range for a “low range” calibration of MFC in the example. The precision method can be applied to either the lower third, middle third, or upper third of the full operating range for any MFC.

### Features

- Compatible with TruViu hardware family
- Compact but scalable
- Stand-alone analog control
- Gas contacts only metallic parts for high cleanliness

### Dimensions\*

Gas Manifold 7" (H) x 11" (W) x 7" (D)\*

### Specifications

Rating	NEMA 2
Operating Temperature	5 – 40°C (41 – 104°F)
Storage Temperature	-25 – 70°C (-15 – 158°F)
Relative Humidity	5–95% (non-condensing)
Weight/Shipping Weight	27 lb/34 lb (12.3 kg/15.5)
Certification	Designed for CE
Inlet Pressure	30–35 psig
Outlet Pressure	30–35 psig
Accuracy	±0.8% of rate ±0.3% Full Scale (Burkert)
Repeatability	±0.1% Full Scale (Burkert)

### Components

Mass Flow Controllers	Up to six (6) per vessel for TruViu™ PLSS. Up to five (5) per vessel for TruViu™ PLSSmini or RDPD.
Solenoid valves	Three (3) per gas
Headers/Spargers	Three (3) total per manifold

\* Subject to change without notice

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