



The Model T700U Trace-Level Dynamic Dilution Calibrator



The Model T700U is ideal for the calibration of standard and trace-level gas analyzers. The T700U includes two operating modes: a high range with similar performance to the Model T700 instrument with ozone generator, and a low range which includes a “fractional mode” for producing accurate and stable O₃ and NO₂ levels down to 3 ppb.

— With NumaView™ premium T Series software —

- Large, vivid, and durable color touchscreen display
- Lifetime technical support by phone and email
- All other T Series instrument platform features
- Standard two-year warranty

T700U Specifications

Dilution System	■ Flow Measurement Accuracy	± 1% of full scale
	■ Repeatability of Flow Control	± 0.2% of full scale
	■ Linearity of Flow Measurements	± 0.5% of full scale
	■ Flow Range of Dilution Air	0 - 10 SLPM
	■ Optional Ranges	0 - 5 SLPM, 0 - 20 SLPM (others available)
	■ Flow Range of Cylinder Gases*	0 - 200 cc/min
	■ Optional Ranges	0 - 50 cc/min, 0 - 100 cc/min (others available)
	■ Zero Air Requirements	10 SLPM @ 30 psi
	■ Optional Ranges	20 SLPM @ 30 psi
	■ Input Pressure	20 - 40 psig required
	■ Calibration Gas Input Ports	4 (configurable)
■ Diluent Gas Input Ports	1	
NO ₂ Generation (GPT modes)	■ Minimum Output	20 ppb LPM
	■ Minimum Concentration	3 ppb
	■ Precision	± 2% (with GPTPS)
Ozone Generator Module	■ Maximum Output	6 ppm LPM
	■ Minimum Output	20 ppb LPM
	■ Minimum Ozone Concentration	3 ppb
	■ Response Time	180 seconds to 98%
	■ Optical Feedback	Standard
UV Photometer Option	■ Range	100 ppb to 10 ppm (selectable)
	■ Precision	1.0 ppb
	■ Linearity	1.0% of reading
	■ Rise/Fall Time	<20 seconds (photometer response)
	■ Response Time	180 seconds to 95% (system response)
	■ Zero Drift	< 1.0 ppb/24 hours
Electrical	■ Power Requirements	85V-264V, 47Hz-63Hz
	■ Analog Output Ranges (Test Channel)	10V, 5V, 1V, 0.1V (selectable)
Communication Specifications	■ Included I/O	1 x Ethernet: 10/100Base-T 2 x RS232 (300-115,200 baud) 2 x USB device ports 12 x digital control outputs 12 x digital control inputs 8 x digital status outputs
	■ Optional I/O	1 x USB com port 1 x RS485 Multidrop RS232
Physical Specifications	■ Operating Temperature Range	5 - 40°C
	■ Dimensions (HxWxD)	7" x 17" x 24" (178 x 432 x 609 mm)
	■ Weight	31 lbs (14.06 kg); 39.2 lbs (17.78 kg) with photometer, GPT, and O ₃ generator

* Can select 3rd MFC option for wider dynamic range

Specifications subject to change without notice.
All specifications are based on constant conditions.



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