



The Model T640 PM Mass Monitor



Teledyne API is excited to unveil the latest addition to our ambient particulate monitoring product portfolio: The Model T640 PM mass monitor. Delivering continuous, real-time PM mass measurements using innovative broadband spectroscopy, the T640 comes with high resolution, fast response, low power, and effortless operation.

— With NumaView™ premium T Series software —

- Large, vivid, and durable color touchscreen display
- Lifetime technical support by phone and email
- Ethernet with TCP/IP Modbus communications and Remote control software
- Standard two-year warranty
- US EPA-approved



T640 Specifications

Performance	<ul style="list-style-type: none"> Measurement Principle 	Broadband spectroscopy using 90° white-light scattering with Polychromatic LED
	<ul style="list-style-type: none"> Particle size resolution 	256 sizes over 0.18 – 20µm range, combined to 64 channels for mass calculation
	<ul style="list-style-type: none"> PM Mass Measurements 	PM ₁₀ , PM _{2.5} , and PM _{10-2.5} simultaneously
	<ul style="list-style-type: none"> PM Mass Resolution Measurement Range 	0.1 - 10,000 µg/m ³
	<ul style="list-style-type: none"> Mass Measurement & Display Resolution 	0.1 µg/m ³
	<ul style="list-style-type: none"> Precision 	±0.5 ug/m ³ (1-hr average)
	<ul style="list-style-type: none"> Lower Detectable Limit 	<0.1 ug/m ³ (1-hr average)
	<ul style="list-style-type: none"> Data Rate 	10s to 48hr (user selectable)
	<ul style="list-style-type: none"> Mass Concentration Accuracy 	Exceeds US EPA PM10 FEM and Class III FEM PM2.5 performance requirements for additive and multiplicative bias compared to FRM samplers
	<ul style="list-style-type: none"> Flow Rate 	5.0-lpm sample flow (Standard model); 11.67-lpm optional bypass flow (with option 640x)
	<ul style="list-style-type: none"> Flow Accuracy 	Within ±1%; (Typically within ±0.5%)
Operating Conditions	<ul style="list-style-type: none"> Operating Temperature 	0 - 50°C, non-condensing
	<ul style="list-style-type: none"> Ambient Temperature 	-40 - 60°C
	<ul style="list-style-type: none"> Ambient Relative Humidity 	0 - 100%
	<ul style="list-style-type: none"> Sample Humidity Control 	24VDC, 90W (max) heater controlled to 35% RH
	<ul style="list-style-type: none"> Weatherproof enclosure required with 0 - 50°C, non-condensing environmental control 	
	<ul style="list-style-type: none"> Requires only 10-min warm-up time 	
Interfaces and Data Storage	<ul style="list-style-type: none"> T Series analyzer interface with full touch screen display and NumaView™ premium operating software and NumaView™ remote software 	
	<ul style="list-style-type: none"> 4Gb memory allows for > 1 year of internal data storage 	
	<ul style="list-style-type: none"> Front Panel USB Ports 	2x type-A Peripheral Ports
	<ul style="list-style-type: none"> Ethernet Communication (supports TCP/IP Modbus and HTTP polling protocols) 	
Electrical	<ul style="list-style-type: none"> T640 instrument 	100 - 230VAC 50/60Hz, Power consumption < 120W @ 120VAC
	<ul style="list-style-type: none"> External pump (for optional bypass flow - option 640x) 	100 - 120VAC 60Hz or 220-240VAC 50/60Hz, Power consumption <360W @ 120VAC
Physical Specifications	<ul style="list-style-type: none"> Unit dimensions (HxWxD) 	7" x 17" x 14" (17.8 x 43.2 x 35.6 cm)
	<ul style="list-style-type: none"> Unit weight 	19 lbs (8.6 kg)
	<ul style="list-style-type: none"> Sample heater tube height 	43" (109 cm)
	<ul style="list-style-type: none"> Sample heater tube weight 	6 lbs (2.7 kg)
Certifications	<ul style="list-style-type: none"> US EPA PM_{2.5} Federal Equivalent Method EQPM-0516-236 	
	<ul style="list-style-type: none"> US EPA PM_{2.5} Federal Equivalent Method EQPM-0516-238* 	
	<ul style="list-style-type: none"> US EPA PM₁₀ Federal Equivalent Method EQPM-0516-239* 	
	<ul style="list-style-type: none"> US EPA PM_{10-2.5} Federal Equivalent Method EQPM-0516-240* 	

* with 640x option
Specifications subject to change without notice.

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