

Product Datasheet - Technical Specifications



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P/N: EM54

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

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Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to exportquestions@flir.com with any questions.



Part number	EM54
Part name	Environmental Meter
Part description	<p>The EM54 is the right choice for HVAC/R professionals looking for a cost effective, accurate and reliable environmental meter for inspecting and troubleshooting HVAC/R ducting and system components in residential, commercial and industrial facilities. Check that duct inlet and outlets have the specified volumetric flow, a prerequisite to an efficient functional system. Verify proper room temperature and relative humidity levels, important for comfort in home and work environments and required in certain manufacturing settings. Use the contact temperature probe to assess electric motors and thermal equipment components for proper operating temperatures.</p> <ul style="list-style-type: none"> • External large vane anemometer for wide measurement range high resolution air velocity measurements • Hygrometer and Ambient temperature measurements • Type K Thermocouple for contact temperature measurements • Multiple calculated parameters - Duct airflow, Wet bulb and Dew point temperatures • Backlit multifunction LCD display • Intuitive operation with clearly marked function keys • Hold function for when you need to preserve the reading • MIN-MAX-AVG recording function for more meaningful results when the measured parameter fluctuates
Air velocity	
Range/ Accuracy	0.4 to 30 m/s (79 to 5906 ft/min, 1.4 to 108.0 km/h, 0.9 to 67.2 mph, 0.8 to 58.3 knots)/ ±3% +0.2 m/s (40 ft/ min)



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Air temperature	
Range/ Accuracy	10 to 30°C (50 to 86°F)/ ± 1°C (1.8°F) -30 to 9.9°C (-22 to 50°F) and 31 to 60°C (88 to 140°F)/ ± 2°C (3.6°F)
Air relative humidity	
Range/ Accuracy	5 - 98% / ±3.5%
Dew point	
Range/ Accuracy	-30 to 60°C (-22 to 140°F)/ ± 3°C (4.8°F)
Wet bulb	
Range/ Accuracy	-30 to 50°C (-22 to 122°F)/ ± 3°C (4.8°F)
Contact temperature (Type- K)	
Range/ Accuracy	-99.9 to 99.9°C (-148 to 212°F)/ ± 1.5% +1°C (1.8°F) 100 to 1372°C (212 to 2502°F)/ ± 1.5% +2°C (3.6°F)
Meter data	
Display	Backlit multifunction LCD
Warranty	Limited 3 years
Certifications	
Certifications	CE, RCM
Power system	
Power requirements	(1) × 9V
Battery life	120 Hrs typical
Battery status indicator	Low Battery indication
Auto Power Off (APO)	Configurable 5-60 min. in 8 increments
Environmental data	
Drop test	1 m (1.3 ft.) not including removable probes
Operating temperature / Relative Humidity	0– 50°C (32 to 122°F)
Storage temperature	-10– 60°C (14 to 140°F)
Physical data	
Weight	283.9 g (10 oz.) with battery installed, no external probes
Dimensions, Main unit	275 x 65 x 45 mm (10.8 x 2.6 x 1.8 in.)
Anemometer attachment	
Body length	150 mm (5.9 in.)
Cable length	950 mm (37.4 in.)
Vane diameter	70 mm (2.8 in.)
Housing material	Impact resistant plastic
Color	Black



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Shipping information	
Packaging type	Gift box with colored sleeve
Packaging contents	<ul style="list-style-type: none">• EM54 Environmental meter• Pouch• 1 x 9V battery• Type- K thermocouple probe• Vane anemometer sensor with cable• Tripod stand• Quick Start manual• Warranty card• Line card
Packaging weight	0.75 kg (1.7 lb.)
Packaging dimensions (H x W x L)	6.0 x 15.0 x 31.1 cm (2.4 x 5.9 x 12.2 in.)
Carton weight	12.5 kg (27.6 lb.)
Carton dimensions (H x W x L)	37 x 31 x 45 cm
Carton quantity	15
EAN-13	0793950220542
UPC-12	793950220542
Country of origin	China
Tariff code	9027804590
Technical support	
Website	http://support.flir.com