



Fluke 414D/62 MAX + Laser Distance Meter/Infrared Thermometer Combo Kit

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Fluke 414D Laser Distance Meter

Distance Measurement	
Typical Measuring Tolerance[1]	± 2.0 mm [3]
Maximum Measuring Tolerance[2]	± 3.0 mm [3]
Range at Leica target plate GZM26	50 m / 165 ft
Typical Range[1]	40 m / 130 ft
Range at unfavorable condition[4]	35 m / 115 ft
Smallest unit displayed	1 mm / 1/16 in
∅ laser point at distances	6 / 30 / 60 mm (10 / 50 / 100 m)
Tilt measurement	
Measuring tolerance to laser beam[5]	No
Measuring tolerance to housing[5]	No
Range	No
General	
Laser class	2
Laser type	635 nm, <1 mW
Protection class	IP40
Automatic laser off	After 90 seconds
Automatic power off	after 180 seconds
Battery life (2 x AAA) 1.5 V NEDA 24A/IEC LR03	Up to 3,000 measurements
Size (H X W X L)	116mm Length 53mm Width 33mm Depth
Weight (with batteries)	113 g
Temperature range: Storage Operation	-25 °C to +70 °C (-13 °F to +158 °F) 0 °C to +40 °C (32 °F to +104 °F)

Calibration cycle	Not applicable
Maximum altitude	3000 m
Maximum relative humidity	85% at 20 °F to 120°F (-7 °C to 50 °C)
Safety	IEC Standard No. 61010-1:2001 EN60825-1:2007 (Class II)
EMC	EN 55022:2010 EN 61000-4-3:2010 EN 61000-4-8:2010
<p>[1] Applies for 100 % target reflectivity (white painted wall), low background illumination, 25 °C. [2] Applies for 10 to 500 % target reflectivity, high background illumination, -10 °C to +50 °C. [3] Tolerances apply from 0.05 m to 10 m with a confidence level of 95 %. The maximum tolerance may deteriorate to 0.1 mm/m between 10 m to 30 m and to 0.15 mm/m for distances above 30 m. [4] Applies for 100 % target reflectivity, background illumination between 10'000 lux and 30'000 lux. [5] After user calibration. Additional angle related deviation of ±0.01° per degree up to ±45° in each quadrant. Applies at room temperature. For the whole operating temperature range the maximum deviation increases by ±0.1°.</p>	

Fluke 62 MAX+ Infrared Thermometer

Specifications			
Temperature Range	-30 °C to 650 °C (-22 °F to 1202 °F)		
Accuracy	±1.0 °C or ±1.0% of reading, whichever is greater -10 °C to 0 °C: ±2.0 -30 °C to -10 °C: ±3.0		
Response Time (95%)	Fluke 62 MAX+	<300 ms (95% of reading)	
	Spectral Response	8 to 14 microns	
	Emissivity	0.10 to 1.00	
Optical Resolution	12:1 (calculated at 90% energy)		
Display Resolution	0.1 °C (0.2 °F)		
Repeatability of Readings	±0.5% of reading or <±0.5 °C (1 °F), whichever is greater		
Power	AA battery		
Battery Life	8 hours with laser and backlight on		
Physical Specifications	Weight	255 g (8.99 oz)	
	Size	(175 x 85 x 75) mm (6.88 x 3.34 x 2.95) inches	
	Operating Temperature	0 °C to 50 °C (32 °F to 122 °F)	
	Storage Temperature	-20 °C to 60 °C (-4 °F to 140 °F), (without battery)	
	Operating Humidity	10 % to 90 % RH non-condensing at 30 °C (86 °F)	
	Operating Altitude	2000 meters above mean sea level	
	Storage Altitude	12,000 meters above mean sea level	
	IP Rating	IP 54 per IEC 60529	
	Drop Test	3 meters	
	Vibration and Shock	IEC 68-2-6 2.5 g, 10 to 200 Hz, IEC 68-2-27, 50 g, 11 ms	
	EMC	EN 61326-1:2006 EN 61326-2:2006	
	Standards and Agency Approval	Compliance	EN/IEC 61010-1: 2001
		Laser Safety	FDA and EN 60825-1 Class II