

# FLUKE 59 MAX I.S

## INTRINSICALLY SAFE NON CONTACT INFRARED TEMPERATURE THERMOMETER

For temperature measurement in EX-hazardous areas



**FLUKE**®

Ex Rating:	Ex ia I Ma Ex ib LLC T4
I.A. Number:	MASC M/17-219X

### Specifications

59 MAX	
Temperature range	-30 °C to 350 °C (-22 °F to 662 °F)
Accuracy (Calibration geometry with ambient temperature 23 °C ±2 °C)	≥ 0 °C: ± 2.0 °C or ± 2.0 % of reading, whichever is greater
	≥ -10 °C to <0 °C: ± 2.0 °C
	< -10 °C: ± 3.0 °C
	≥ 32 °F: ± 4.0 °F or ± 2.0 % of reading, whichever is greater
	≥ 14 °F to <32 °F: ± 4.0 °F
< 14 °F: ± 6.0 °F	
Response time (95 %)	<500 ms (95 % of reading)
Spectral response	8 μm to 14 μm
Emissivity	0.10 to 1.00
Distance to spot ratio	8:1 (calculated at 90 % energy)
Display resolution	0.1 °C (0.2 °F)
Repeatability (% of reading)	±1.0 % of reading or ±1.0 °C (±2.0 °F), whichever is greater
General specifications	
Power	1 AA IEC LRO6 Battery
Batter life	12 hours with laser and backlight on
Weight	220 g (7.76 oz)
Size	(156 x 80 x 50) mm (6.14 x 3.15 x 2) 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 @ 30 °C (86 °F)
Operating altitude	2000 meters above mean sea level
Storage altitude	12,000 meters above mean sea level
Drop test	1 m
Safety specifications	
Ingress protection rating	IP40 per IEC 60529
Vibration and shock	IEC 68-2-6 2.5 g, 10 to 200 Hz, IEC 68-2-27, 50 g, 11 ms
Compliance	EN/IEC 61010-1
Laser safety	FDA and EN 60825-1 Class II
Electromagnetic compatibility	61326-1 EN 61326-2