

# General specifications

Technical specifications	Fluke 411D	Fluke 416D
Range (for extended distances, use a target plate)	0.1 m to 30 m (0.33 ft to 100 ft)	0.05 m to 60 m (0.16 ft to 200 ft)
Measuring accuracy**	± 3 mm (0.118 in)	± 1.5 mm (± 0.059 in)
Units displayed	00.000 m, 000 ft 00 in 1/8, 000.00 ft	00.000 m, 000 ft 00 in 1/16, 000.00 ft
Laser class	II	II
Laser type	635 nm, < 1 mW	635 nm, < 1 mW
Automatic power off	after 180 seconds	after 180 seconds
Continuous measurement	•	•
Addition/subtraction	•	•
Battery life	up to 3,000 measurements	up to 5,000 measurements
LCD illumination	–	•
Data locations	–	10
Min/Max	–	•
Audible feedback	–	•
Pythagoras (Indirect measurement)	Simple	Full
Ingress protection	IP40	IP54
Dimensions	123 mm x 50 mm x 26 mm (4.84 in x 1.97 in x 1.02 in)	135 mm x 46 mm x 31 mm (5.31 in x 1.81 in x 1.22 in)
Weight	150 g (5.29 oz)	110 g (3.88 oz)
Temperature range		
Storage	-25 °C to 70 °C (-13 °F to 158 °F)	-25 °C to 70 °C (-13 °F to 158 °F)
Operation	0 °C to 40 °C (32 °F to 104 °F)	0 °C to 40 °C (32 °F to 104 °F)
Operating altitude (ISO 9022)	up to 3500 m	up to 3500 m
Storage humidity (at 35 °C)	maximum 85 % for 24 h	maximum 85 % for 24 h
Batteries	AAA (2)	AAA (2)

\* In favorable conditions (optimal target surface, room temperature) up to 10 m (33 ft). In unfavorable conditions, such as intensive sunshine, very weakly reflecting target surface, or large temperature fluctuations, measuring accuracy may deteriorate to approx. ± 0.25 mm/m (± 0.003 in/ft) for distances above 10 m (33 ft).

\*\* In favorable conditions (optimal target surface, room temperature) up to 10 m (33 ft). In unfavorable conditions, such as intensive sunshine, very weakly reflecting target surface, or large temperature fluctuations, the deviation over distances 10 m (33 ft) can increase by approx. ± 0.15 mm/m (± 0.0018 in/ft).