

# Reading Distances<sup>1)</sup> (approximated to DIN 41 075)



Reading Distances

## ■ Analog clocks

Visible face diameter	Reading distance outdoors (cir.)	
	in lighted rooms or halls	unlighted clocks in average to favourable daylight conditions
200 mm	10 m	–
250 mm	15 m	–
300 mm	20 m	–
350 mm	25 m	–
400 mm	30 m	25..50 m
500 mm	40 m	40..75 m
600 mm	50..60 m	60..100 m
800 mm	90..100 m	100..150 m
1000 mm	120..130 m	130..200 m
1500 mm	at least 220 m	210..310 m
2000 mm	at least 350 m	310..600 m
2500 mm	at least 400 m	370..800 m

## ■ Digital clocks/displays

Character height	Display system	Reading distance indoors (cir.)	Reading distance outdoors (cir.)
13 mm	LED	4 m	–
25 mm	LED	7 m	–
30 mm	LED	10 m	–
40 mm	LCD	15 m	–
45 mm	LED	18 m	–
54 mm	LCD	20 m	–
57 mm	LED	20 m	–
74 mm	LCD	25 m	–
90 mm	LCD	35 m	–
100 mm	LED	40 m	–
140 mm	LCD	50 m	–
160 mm	LED	70 m	60..70 m
250 mm	LED	110 m	90..100 m
460 mm	LED	200 m	160..180 m

<sup>1)</sup> Reading distances are distances between the clock and an observer, derived from practical experiments. For analog clocks, black DIN bar markings and black bar-type hands on white clock faces (in accordance with DIN 41 091) were used.

**All distances are given as aids to orientation only and are without obligation.**