Reading Distances [1)]
(approximated to DIN 41 075)

Analog clocks

Visible face diameter	Reading distance indoors (cir.) in lighted rooms or halls	Reading distance outdoors (cir.) unlighted clocks in average to favourable daylight conditions	Reading distance outdoors (cir.) backlighted clocks in darkness
200 mm	10 m	–	–
250 mm	15 m	–	–
300 mm	20 m	–	–
350 mm	25 m	–	–
400 mm	30 m	25..50 m	25..30 m
500 mm	40 m	40..75 m	35..40 m
600 mm	50..60 m	60..100 m	55..60 m
800 mm	90..100 m	100..150 m	90..100 m
1000 mm	120..130 m	130..200 m	115..130 m
1500 mm	at least 220 m	210..310 m	175..200 m
2000 mm	at least 350 m	310..600 m	250..300 m
2500 mm	at least 400 m	370..800 m	320..350 m

Reading Distances

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	–
180 mm	LED	70 m	60..70 m
250 mm	LED	100 m	90..100 m
320 mm	LED	125 m	100..120 m
500 mm	LED	200 m	180..200 m

[1)] 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.