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Synchronized Clock Systems

SAM Series Wired Round Clock (V4.4)

Features:

- Available in 9" (22.8cm), 12" (30.4 cm), and 16"(40.6 cm) dial sizes
- Offered in a low-profile metal case or SlimLine ABS case
  - Optional Cherry Wood finish or Brushed Aluminium finish
- Multiple power options
  - Offered in 110VAC, 230VAC and 24VAC/VDC models
- Provided with mounting hardware for easy installation
- Hour, minute, and second hands
- Quick correction for time change (max. 5 minutes when used with digital communication protocol)
- Microprocessor based movement
- Side molded, polycarbonate crystal

Highlights:

- Automatically recognizes many wired time data protocols:
  - 2-wire digital communication system (24V clock only)
  - 3-wire digital communication system
  - Sync-wire 59 minute correction
  - Various Sync-wire 58 minute correction formats
  - National Time/Rauland correction
- Correctly interprets time data protocols even if the **signal** wire polarity is switched.
- Built–in self–diagnostic mode:
  - Communication Protocol Verificaiton
  - Time since the last synchronization signal was received
  - Hand position error detection
- Custom Color Cases available (minimum quantity 25)
- Designed and Produced by Sapling Inc. in Pennsylvania, United States of America

Specification sheets may change without prior notice

The Sapling Company, Inc. • 670 Louis Drive Warminster, PA 18974 USA • P: (+1) 215.322.6063 • F: (+1) 215.322.8498 • W: www.sapling-inc.com

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Specifications:

Case Material:

Steel or ABS.
Cherry wood finish or brushed aluminum finish for the SlimLine ABS case are also available.

Case Color:

Standard black finish (custom colors available)

Dial Face:

12 or 24 (military) hour standard

Specialty dials avaliable

Dial Material:

Durable polystyrene

Crystal Material:

Shatter-proof, side-molded, transparent polycarbonate

Voltage Input:

7 - 28 VDC/VAC 50/60 Hz (24V model)

85 - 130 VAC 50/60 Hz (110V model)

180 - 260 VAC 50/60 Hz (230V model)

Average Current Consumption:

35 mA @ 24VDC/VAC

25 mA @ 110VAC

15 mA @ 230VAC

Hand tolerance:

Minute hand: +/- 1/4 minute

Second hand: +/- 1/2 second

Temperature range:

Operating: 32°F - 113°F (0°C - 45°C)

Shelf: 5°F - 167°F (-15°C - 75°C)

Compliance:

UL, cUL listed, CE Compliances: EMC, LVD

c UL US

Ordering Information:

SAM Series Wired Round Clock: SAM-XXS-XXR-X-XX

Version Number:	Color:	Size:	Voltage:	Dial:	Hands:
1: Metal Case 4: SlimLine ABS 5: Brushed Aluminum 6: Wood	B: Black C: Custom A: Brushed Aluminum D: Wood	09: 9" 12: 12" 16: 16"	4: 24V 1: 110V 2: 230V	A-G: Specialty M: 24 Hour Y: Custom Face Z: Custom Logo	1-3: Specialty

Double Mount Housing: SAX-XXD-XXR-0X

H-1 SlimLine B-1 Standard Metal B-4 Standard ABS	Color: B: Black C: Custom	Clock Size: 12: 12" 16: 16"	_: SlimLine M: Standard

Note: Purchasing double mounted round analog clocks will require two clocks using the clock part number and one double mount housing using the part number above.

*Note: SlimLine and Aluminum clocks use the SlimLine Adapter.

Examples:

SAM-6DS-09R-4: Sapling Analog, Wired SAM, 9" Round, 24V, Surface Wall Mount, Solid Cherry Wood Frame, Supports: 2-Wire Digital & Sync Wire Protocols

SAM-5AS-12R-2: Sapling Analog, Wired SlimLine SAM, 12" Round, 230 VAC, Surface Wall Mount, Brushed Aluminum Case, Supports: Sync Wire Protocols

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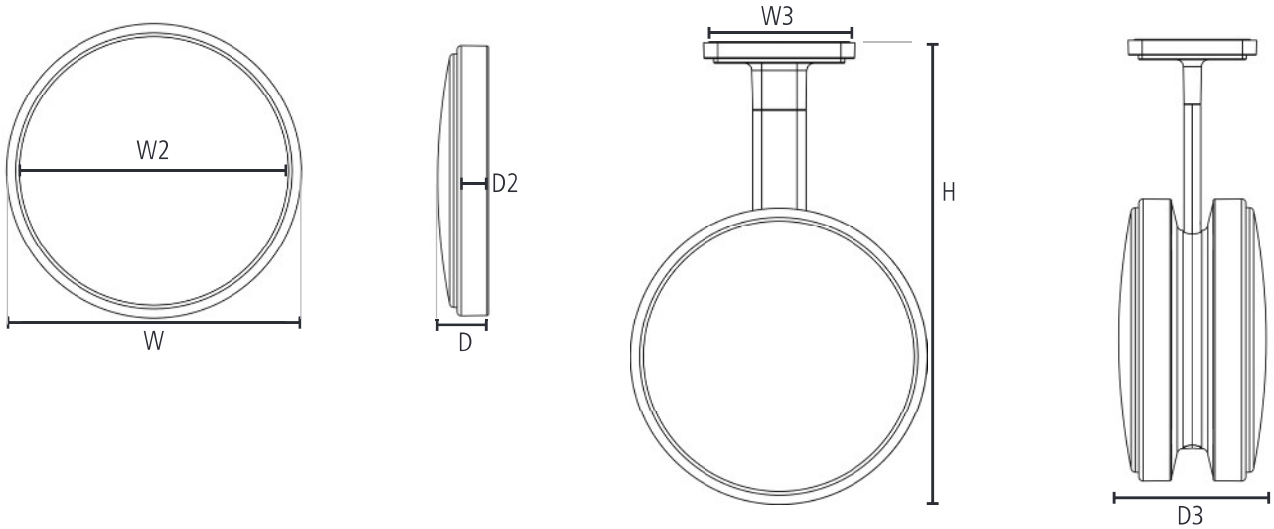
Sapling Round Analog Clock Dimensions



	METAL			SLIMLINE ABS	
Clock Size:	**12" Standard**	**16" Standard**	**9" SlimLine**	**12" SlimLine**	**16" SlimLine**
	W = 12.75" (32.4cm) W2 = 11.80" (30.0cm) D = 2.44" (6.2cm) D2 = 1.45" (3.7cm)	W = 16.75" (42.6cm) W2 = 15.75" (40.0cm) D = 2.50" (6.4cm) D2 = 1.60" (4.1cm)	W = 9.8" (24.8cm) W2 = 9.5" (24.2cm) D = 2.4" (6.2cm) D2 = 1.7" (4.2cm)	W = 12.9" (32.7cm) W2 = 12.6" (32.0cm) D = 2.4" (6.2cm) D2 = 1.7" (4.3cm)	W = 16.7" (42.3cm) W2 = 16.3" (41.5cm) D = 2.5" (6.4cm) D2 = 1.7" (4.4cm)
Shipping Weight:	4.0lbs (1.81kg)	6.0lbs (2.72kg)	2 lbs (0.9 kg)	2 lbs (0.9 kg)	4 lbs (1.8 kg)
Double/Dual Mount Dimensions:	W3 = 6.56" (16.7cm) D3 = 6.86" (17.5cm)	W3 = 6.56" (16.7cm) D3 = 8.00" (20.3cm)	Not Applicable	W3 = 6.6" (16.7cm) D3 = 6.4" (16.2cm)	W3 = 6.6" (16.7cm) D3 = 6.4" (16.3cm)
Adjustable Pole Height:	H = 19.69" (50.0cm) = 18.07" (45.9cm) = 16.45" (41.8cm)	H = 21.90" (55.6cm) = 20.20" (51.3cm) = 18.56" (47.1cm)	Not Applicable	H = 19.7" (50.2cm) = 18.1" (46.1cm) = 16.5" (41.9cm)	H = 21.7" (55.3cm) = 20.1" (51.2cm) = 18.5" (47.0cm)

	ALUMINUM			WOODEN		
Clock Size:	**9" Aluminum**	**12" Aluminum**	**16" Aluminum**	**9" Wood**	**12" Wood**	**16" Wood**
	W = 10.7" (27.1cm) W2 = 9.5" (24.2cm) D = 2.4" (6.2cm) D2 = 1.7" (4.2cm)	W = 13.8" (35.0cm) W2 = 12.6" (32.0cm) D = 2.4" (6.2cm) D2 = 1.7" (4.4cm)	W = 17.8" (45.1cm) W2 = 16.3" (41.5cm) D = 2.4" (6.4cm) D2 = 1.7" (4.4cm)	W = 11.6" (29.5cm) W2 = 9.5" (24.2cm) D* = 2.4" (6.2cm) D2* = 2.7" (6.8cm)	W = 13.3" (33.8cm) W2 = 12.6" (32.0cm) D* = 2.4" (6.2cm) D2* = 2.7" (6.8cm)	W = 19.6" (49.9cm) W2 = 16.5" (41.5cm) D* = 2.4" (6.4cm) D2* = 2.7" (6.8cm)
Shipping Weight:	2 lbs (0.9kg)	3 lbs (1.4 kg)	4 lbs (1.8 kg)	3 lbs (kg)	4 lbs (1.8 kg)	6 lbs (2.7 kg)
Double/Dual Mount Dimensions:	Not Applicable	W3 = 6.6" (16.7cm) D3 = 6.4" (16.2cm)	W3 = 6.6" (16.7cm) D3 = 6.4" (16.3cm)	Not Applicable	Not Applicable	Not Applicable
Adjustable Pole Height:	Not Applicable	H = 20.2" (51.5cm) = 18.6" (47.3cm) = 17.0" (43.2cm)	H = 22.3" (56.6cm) = 20.6" (52.4cm) = 19.0" (48.2cm)	Not Applicable	Not Applicable	Not Applicable

***NOTE:** For wood clocks, the rim (D2) protrudes further from the wall than the crystal (D).

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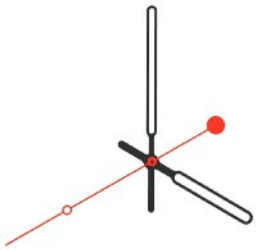
SAM Series Wired Round Clock (V4.4)

Hand & Dial Options

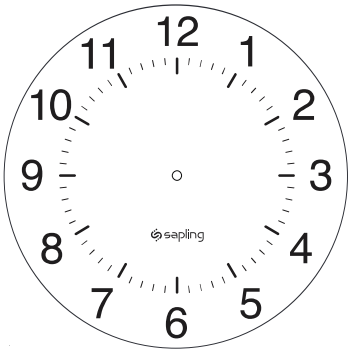
Standard Hands

Specialty Hands 1

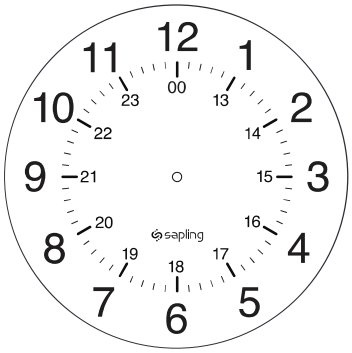
Specialty Hands 2



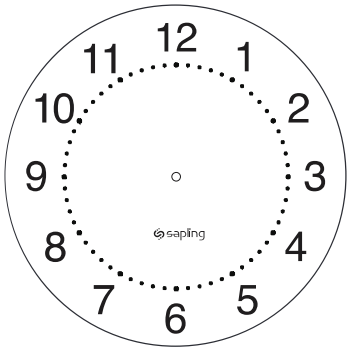
Specialty Hands 3



Standard Dial

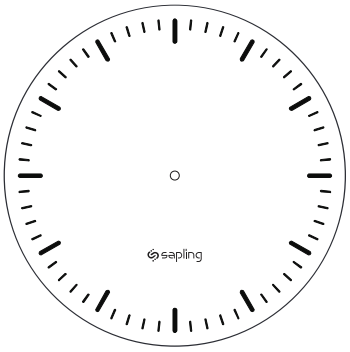


Dial M
(Military 24 Hours)

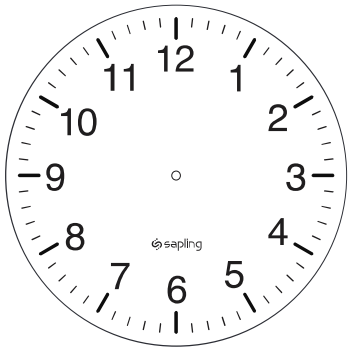


Dial A

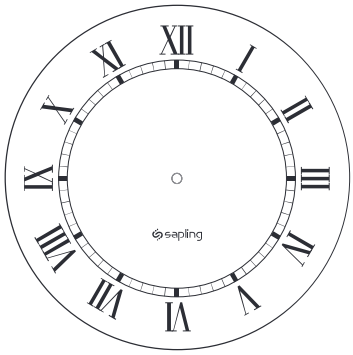
Dial B



Dial C

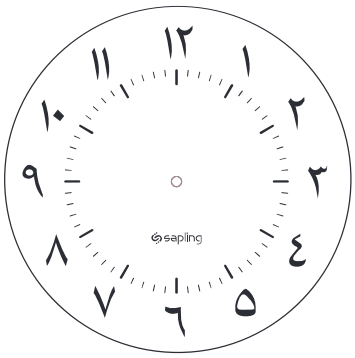


Dial D



Dial E

Dial F



Dial G

Dial Z

Specialty Hands 1-3 & Specialty Dials A-Z are offered at an additonal cost.

For more information please contact your Sapling Representative.

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Clock Case Options

Standard Low Profile
Metal Case

Standard SlimLine
ABS Case

Brushed Aluminum Finish

Solid Wood Case Cherry FInish

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