

## SAM Series Wired Square Clock (V5.4)

### Features:

- Available in 9" (22.8cm), and 12" (30.4 cm) dial sizes
- Offered in a stylish ABS case
- 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



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### Specifications:

#### Case Material:

ABS

#### Case Color:

Standard black or white back case, metallic gray front rim (custom colors available)

#### Dial Face:

12 or 24 (military) hour standard  
Specialty dials available

#### 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 @ 24VAC  
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)

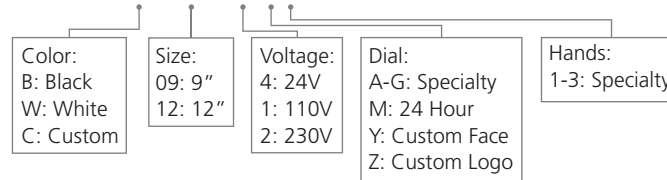
#### Compliance:

UL, cUL listed, CE Compliances: EMC, LVD

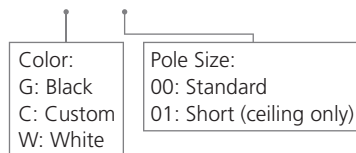


### Ordering Information:

SAM Series Wired Square Clock: SAM-4XS-XXS-X-XX



Double Mount Pole: SAB-1XD-XXS-0



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

Examples:

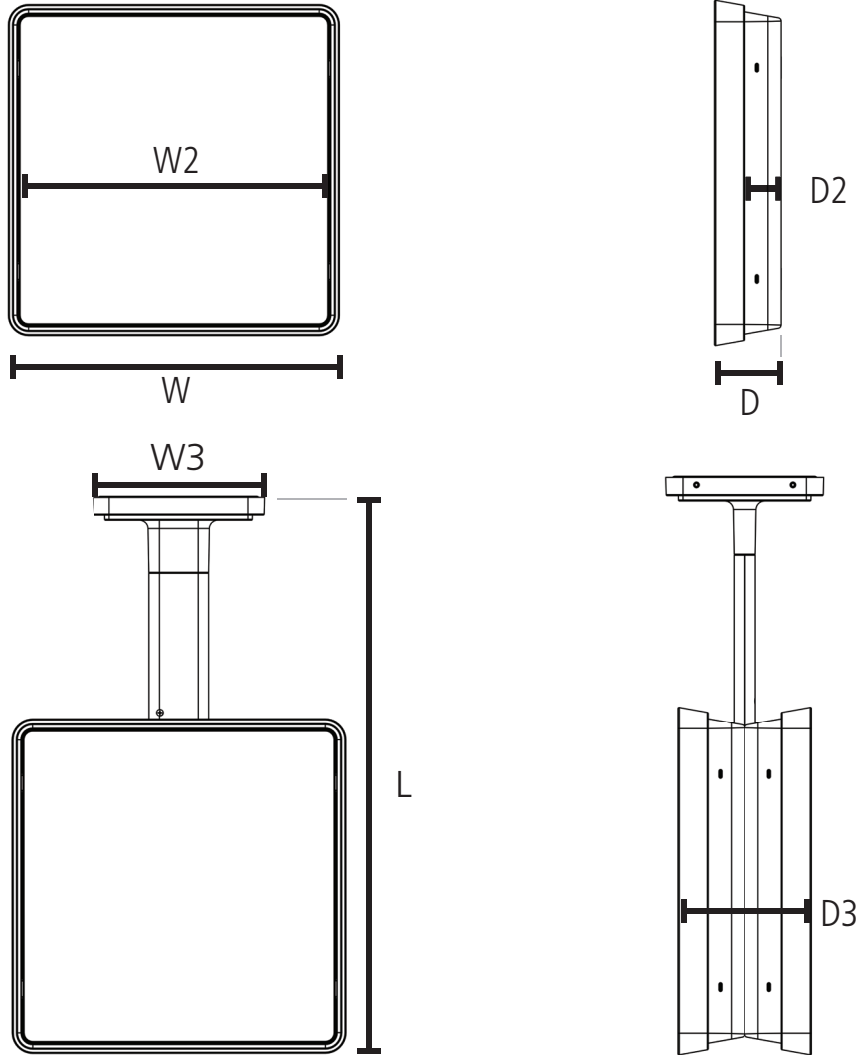
SAM-4WS-09S-4: Sapling Analog, Wired SAM, 9" Square, 24V, Surface Wall Mount, White Case with Metallic Gray Rim, Supports: 2-Wire Digital & Sync Wire Protocols

SAM-4BS-12S-1: Sapling Analog, Wired SAM, 12" Square, 110 VAC, Surface Wall Mount, Mineral Black Case with Metallic Gray Rim, Supports: Sync Wire Protocols

Specification sheets may change without prior notice

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### Sapling Square Analog Clock Dimensions



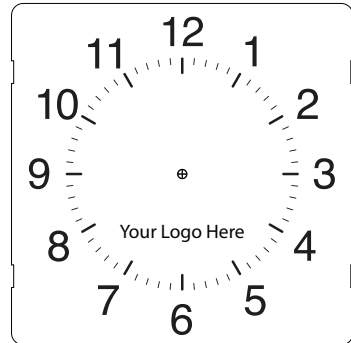
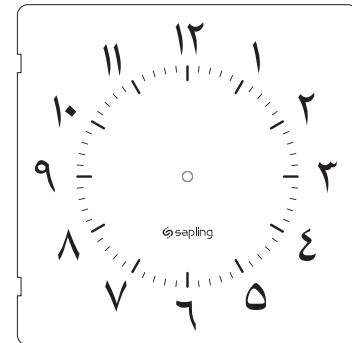
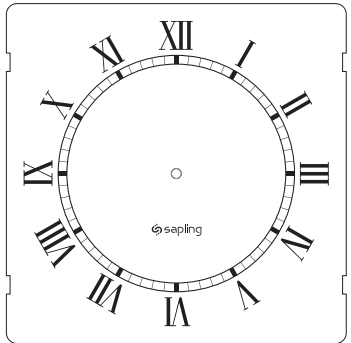
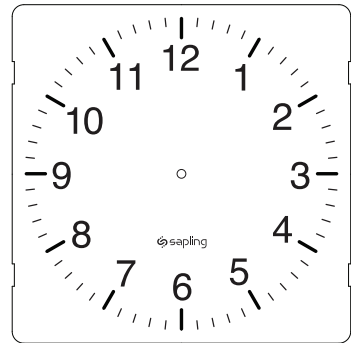
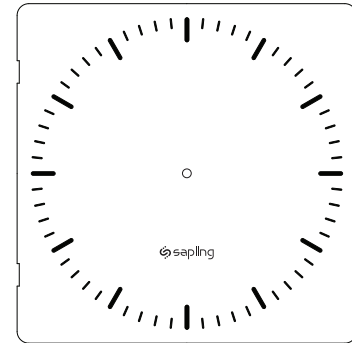
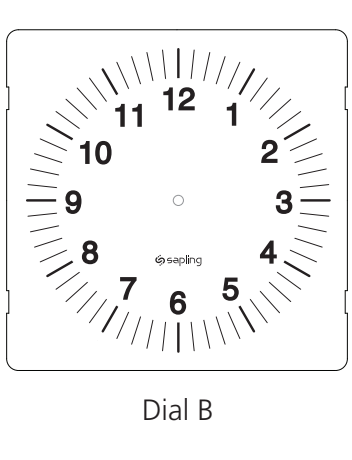
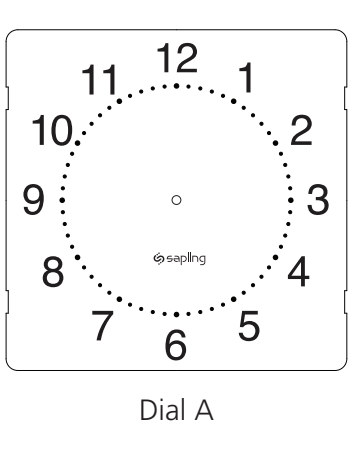
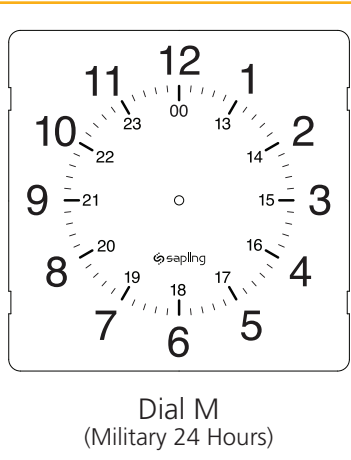
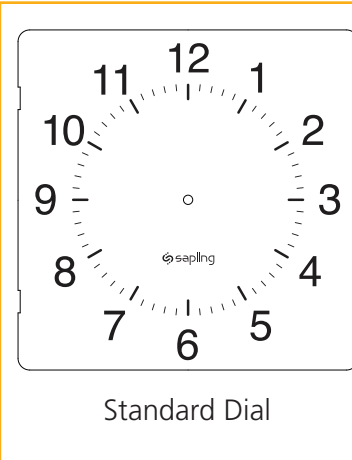
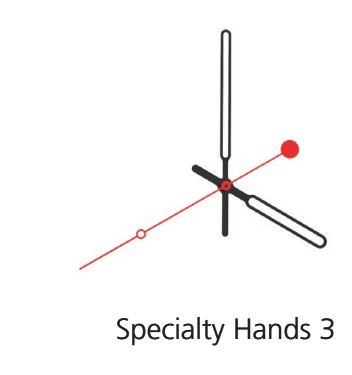
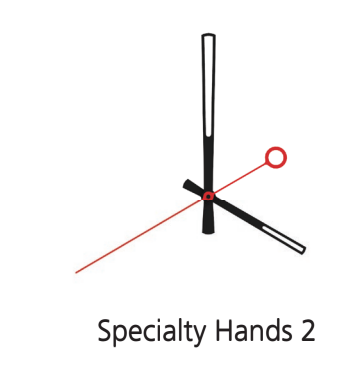
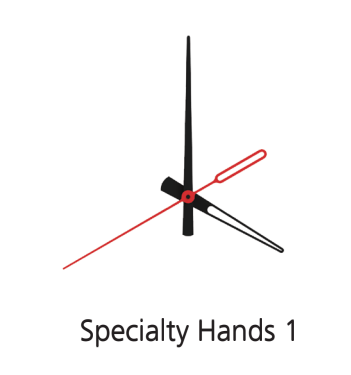
|   | <b>9" Square</b>   | <b>12" Square</b>  |
|---|--|--|
| <b>Clock Size:</b>                                | W = 9.79" (24.9cm)<br>W2 = 8.97" (22.8cm)<br>D = 2.44" (6.2cm)<br>D2 = 1.34" (3.4cm) | W = 12.76" (32.4cm)<br>W2 = 11.94" (30.3cm)<br>D = 2.44" (6.2cm)<br>D2 = 1.34" (3.4cm) |
| <b>Shipping Weight:</b>                           | 3.0lbs (1.81kg)  | 4.0lbs (1.81kg)  |
| <b>Double/Dual Mount Dimensions:</b>              | W3 = 6.56" (16.7cm)<br>D3 = 4.93" (12.5cm)   | W3 = 6.56" (16.7cm)<br>D3 = 4.93" (12.5cm)   |
| <b>Adjustable Pole Height for standard pole*:</b> | L3 = 18.32" (46.5cm)   | L = 21.12" (53.6cm)<br>L = 19.35" (49.1cm)   |
| <b>Shortened Pole Height:</b>                     | L = 12.38" (31.4cm)  | L = 15.50" (39.3cm)  |

\***Standard** pole refers to part number SAB-1GD-00S-0

\*\***Shortened** pole (ceiling mount only) refers to part number SAB-1GD-01S-0

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## Hand & Dial Options



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

For more information please contact your Sapling Representative.