

SAM Series Smart Wired Clock (V3)



Highlights



- Automatic communication protocol identification. The clocks recognize:
 - 2-wire digital communication system
 - Sync-wire 59 minute correction
 - Sync-wire 58 minute correction
 - Sync-wire National Time and Rauland
- Fully automatic plug and play; No settings required
- Automatic frequency detection
- Diagnostic LEDs for ease of maintenance
- Built-in self-test function
- Automatic polarity detection
- Remote system diagnosis
- Quick correction for time change (max. 5 minutes) (digital communication protocol)
- Microprocessor based movement
- Clocks will not deviate from each other (digital communication protocol)
- Ideal for renovation projects using existing wiring, or for new installations
- Hour, minute and second hands
- Energy efficient:
 - 35 mA@ 24 VAC (voltage)
 - 20 mA@ 110 VAC (voltage)
 - 15 mA@ 220 VAC (voltage)
- Wide dynamic range for input voltage
 - 7 VAC—28 VAC (24 V model, 3 wire system)
 - 85 VAC—130 VAC (110 V model, 3 wire system)
 - 180—260 VAC (220 V model, 3 wire system)
- Low profile—one (1) model for flush and surface mount
- No need for custom back box
- Plug in Molex connectors
- Smooth surface metal case (custom colors available) or smooth surface ABS plastic case
- Side molded, polycarbonate crystal
- Available in 24 VAC, 110 VAC and 220 VAC
- UL, cUL listed
- FCC part 15 B “class B digital devices”
- CE Compliant (24V model)
- Made in U.S.A.
- Patents pending

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Specifications



- Time Base: 50/60 Hz (automatic frequency detection, 3-wire system)
- Voltage Input: 7 – 28 VAC / 60 Hz (24V model)
85 – 130 VAC / 60 Hz (110V model)
180 – 260 VAC / 50 Hz (220V model)
- Average Current Consumption: 35mA @ 24 VAC
20 mA @110 VAC
15mA @ 220 VAC
- Correction Current Consumption: 10mA
- Display: 12 hour standard (24 hour dials available)
- Color: Standard black or white (custom colors available)
- Clock Size: 12.81" (32.54 cm) diameter, 1.2" (3.05 cm) depth
16.81" (42.7 cm) diameter, 1.6" (4.06 cm) depth
- Dial: Durable polystyrene material
- Case: Shallow profile, smooth surface metal case (optional ABS case available)
- Crystal: Shatter-proof, side molded polycarbonate crystal
- Hand tolerance: Hour and minute hand: +/- 1/4 minute
Second hand: +/- 1/2 minute
- Temperature range: Operating: 0°C - 45°C
Shelf: -15° - 75°C
- Movement Dimensions: (LxWxD) 2.93" x 2.84" x .937"
(7.44 cm x 7.21 cm x 2.38 cm)

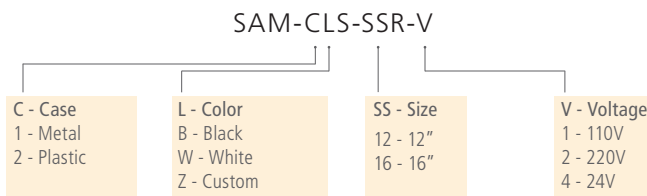
- Mounting Bracket Dimensions: (LxWxD) 12" (30.48 cm) - 12.56" x 3" x .04" (31.9 cm x 7.62 cm x .10 cm)
16" (40.64 cm) - 16.38" x 3" x .04" (41.6 cm x 7.62 cm x .10 cm)
- Shipping Weight: 12" (30.48 cm) Clock - 4 lbs. (1.81kg)
16" (40.64 cm) Clock - 6 lbs. (2.72kg)
- Power Kit Includes: 1 - 5 pin power harness (18 AWG)
1 - ground wire (18 AWG)
1 - 10-12 blue plastic anchor
1 - sheet metal screw 10X1.5
2 - machine screws 6-32 X 1/2
2 - 4 mm thread, 10 mm length screw
- Compliance: UL, cUL listed
FCC part 15 B "class B digital devices"
CE Compliances: EMC, LVD



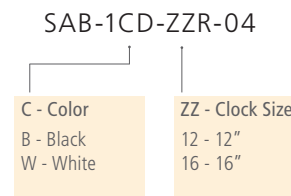
Ordering Information



SAM Series Smart Wired Clock



Double Mount Bracket



Examples:

SAM-1BS-12R-4: SAM Series, Metal Black Case, 12" (30.48 cm), 24 Volt
SAM-2WS-16R-2: SAM Series, Plastic White Case, 16" (40.64 cm), 220 Volt

Example:

SAB-1BD-12R-0 12" (30.48 cm) Double Mount Bracket, Black
SAB-1WD-16R-0 16" (40.64 cm) Double Mount Bracket, White

*specification sheets may change without prior notice