

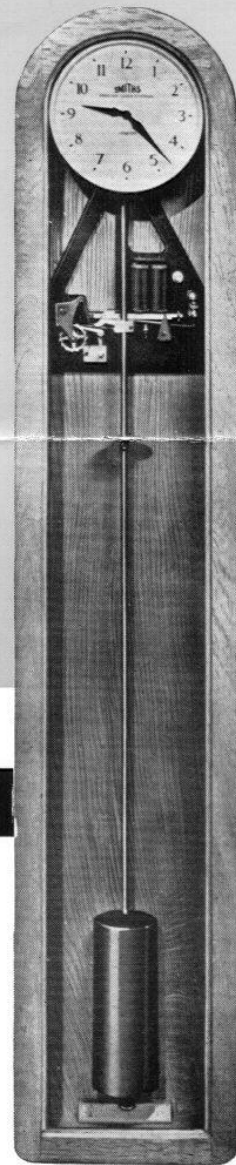
MASTER CLOCKS AND SLAVE CLOCKS

Made by ENGLISH CLOCK SYSTEMS ★

FOR OVER TWENTY YEARS now we have provided Master Clock Installations of all types to large and famous concerns throughout the world. And very satisfactory in every way these have been. The Master Clock system of our manufacture, installed in the Royal Institute of British Architects, Headquarters Building, Portland Place, London, still gives excellent service after 20 years use.

Recently, however, to complement the new feeling of modern architecture and furniture design, we felt it necessary to revise our clock dial designs. We took this problem to many of the leading architects in this country and resulting from their advice and suggestions came a complete new range of dial designs. These we have much pleasure in showing you inside this leaflet.

Hundreds of these new clocks are already in service. You can see them in such buildings as the B.O.A.C. Headquarters Building at London Airport, the Waterloo Air Terminal and Iranian Oil Participants new offices amongst many others.



THE MASTER CLOCK

FUNCTION: To control by half minute impulses any number of Slave Clocks and Time Recorders.

CASE: Up-to-date design in oak or mahogany finish arranged for wall mounting. The glazed door is fitted with a lever lock and two hook fasteners.

DIAL: White enamel with Perpetua numerals in black. Dial diameter 7". Fitted with standard half-minute impulse movement indicating the time shown on all clocks connected to the Master.

MOVEMENT: Designed and manufactured to conform to the accepted principles of all "free" pendulum Master Clocks. The design incorporates double break switching action and unfailing contact is ensured by powerful magnetic attraction.

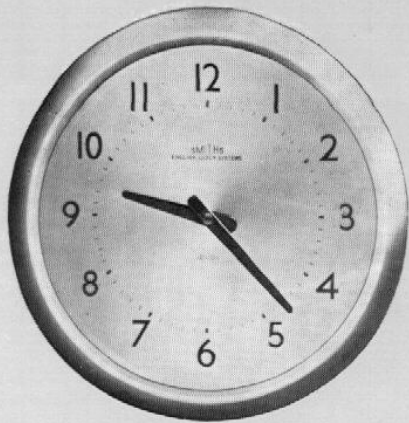
Contact points are of iridium and platinum. Control lever is fitted for advancing or retarding all clocks in the circuit. Complete movement is mounted on a heavy cast-iron base plate.

PENDULUM: Full seconds—fully compensated. Made from "Invar" alloy having an extremely low co-efficient of expansion of 0.0000008 per 1°C. The pendulum is kept in vibration by accurate and regular mechanical impulses received at half minute intervals from the gravity lever. The cylindrical pendulum bob weighs 17 lbs.

TIME KEEPING QUALITIES: Accurate time can be obtained to within plus or minus three seconds per week by careful regulation of the pendulum.

Height : 4' 4½" Width : 10¼" Depth : 5½" Weight : 46 lbs.

A BRANCH OF THE CLOCK AND WATCH DIVISION OF **SMITHS** S. SMITH & SONS (ENGLAND) LTD

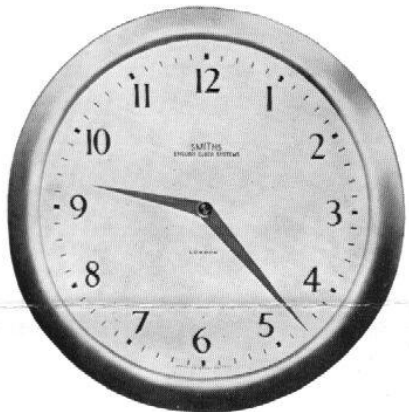


MAYFAIR (surface) **FARNHAM** (insertion)
A circular grained aluminium dial with light Gill Sans numerals. Inner minute ring and black tapered hands. (This model is not supplied in a bakelite case)

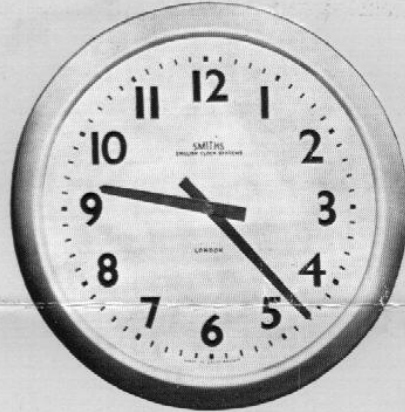
SURFACE MOUNTING AND INSERTION TYPE CLOCKS

by English Clock Systems

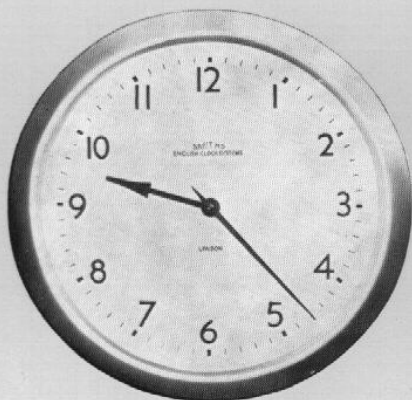
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finishes—surf
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An alternativ
walnut finish.
Both types o
Half minute
operation fro
The insertion
device.
All clocks sl
operate from



MONARCH (surface) **FLINT** (insertion)
BERKELEY (bakelite)
White dial with black Perpetua numerals and simple tapered hands.



MELTON (surface) **FLEET** (insertion)
BUDE (bakelite)
White dial with heavy Gill Sans numerals and bar type hands.



MEDWAY (surface) **FIFE** (insertion)
BRISTOL (bakelite)
White dial with light Gill Sans numerals and arrow type hands.



MOSTYN (surface) **FILEY** (insertion)
BOSTON (bakelite)
White dial with black stroke chaplets and bar type hands.

TYPE

SURFACE

INSERTION

*SURFACE

*BAKELITE MOUNTING



INSERTION
TYPE
(Series F)

Models have been designed to fit in with modern building technique and the cases and bezels are spun aluminium and supplied in standard type in bronze, insertion type cream or white. Any colour finish is available at a small extra charge.

A surface mounted case in moulded bakelite is available in a standard

surface models (metal and bakelite) can be supplied double-sided. Impulse movements are fitted throughout the range—designed for Smiths Pendulum Master Clock.

Surface type models are supplied complete with wall box and shorting-out

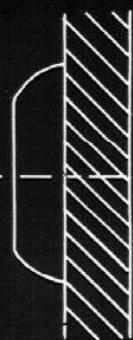
device. Any of the models shown on this leaflet can be fitted with synchronous movements to run on the 200-250 v. 50c — A.C. supply.

SPECIFICATION

CASE	MODELS	DIAL DIAMETER	OVERALL DIAMETER	DEPTH
SPUN ALUMINIUM	MAYFAIR	9"	11 $\frac{1}{8}$ "	2 $\frac{3}{4}$ "
	MONARCH			
	MEDWAY	12"	14 $\frac{1}{8}$ "	2 $\frac{3}{4}$ "
	MELTON			
	MOSTYN			
SPUN ALUMINIUM	FARNHAM	9"	10 $\frac{7}{16}$ "	1 $\frac{1}{8}$ "
	FIFE			
	FLINT	12"	13 $\frac{3}{8}$ "	1 $\frac{1}{8}$ "
	FLEET			
	FILEY			
BAKELITE MOULDED	BERKELEY	6"	8"	2 $\frac{3}{8}$ "
	BRISTOL	9"	11 $\frac{1}{2}$ "	2 $\frac{3}{4}$ "
	BUDE	12"	14 $\frac{5}{8}$ "	2 $\frac{3}{4}$ "
	BOSTON			

SPUN ALUMINIUM CASE NOT ILLUSTRATED

WALL BOXES 6" SQUARE, 2" DEEP



SURFACE MOUNTING TYPE (Series M)

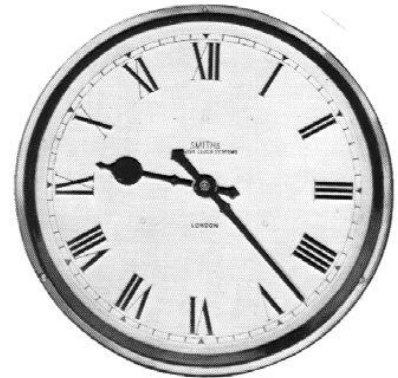
SURFACE MOUNTING MODEL (Series M)

This clock has a simple hinge fixing to give easy accessibility to the movement. If required, provision is made for external wiring to be run through the top of the case.

INSERTION MODEL (Series F)

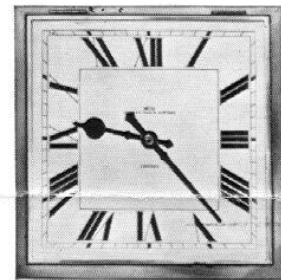
This insertion type requires a wall box 6" square by 2" deep. This wall box has a simple key-hole fixing to take the stud on the clock case. A shorting out device is contained in the wall box simplifying maintenance.

ALTERNATIVE DESIGNS TO CONTEMPORARY RANGE



REMUS—An insertion model with cast bronze bezel and bevelled plate cover glass. Black Roman numerals on white enamelled background. 10" and 12".

10" — 10 $\frac{3}{4}$ " O/D $\frac{1}{4}$ " projection
12" — 12 $\frac{1}{4}$ " O/D $\frac{1}{4}$ " projection

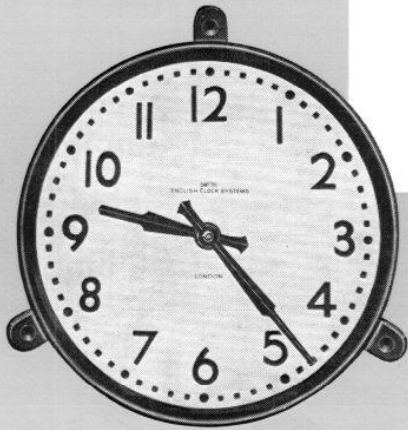


ROMULUS—Insertion clock with square frame made from solid drawn section brass, finished bronze. Hinged frame for easy access to movement. Roman numerals on white enamelled background. 10" dial. 10 $\frac{3}{4}$ " square. $\frac{1}{4}$ " projection.

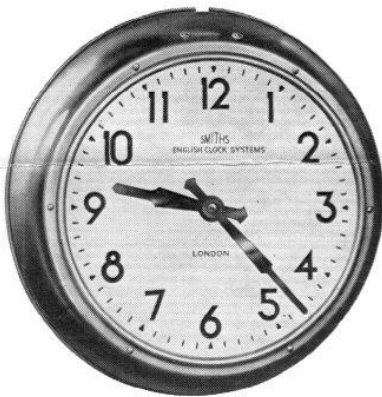
E.C.S. SHOWROOMS

You are invited to visit our Showrooms in London, Manchester and Glasgow, where these standard models can be seen. We can also supply from Smiths extensive range of wall clocks.

WE MANUFACTURE SPECIAL CLOCKS TO ARCHITECTS' OWN DESIGNS



SEALTITE—Heavy cast iron case with cast Gill Sans numerals finished black on a white background with black hands. Damp, rust and fume proof, suitable for installation in steam and damp laden atmospheres. External lug fixing. Supplied with 9", 12" and 18" diameter dial. Projection from wall approx. 5".



DOVER—Surface mounting clock in strong metal case, finished black or bronze, white dial with black numerals and hands. Dial size 18". Suitable for Interior and Exterior use. O/D 24". Depth 4 3/4". Can be supplied in a double-sided model.

HEAVY DUTY & INDUSTRIAL CLOCKS

SOME WELL KNOWN USERS OF ECS MASTER CLOCK SYSTEMS

The Admiralty
Atlas Insurance Co
American Air Force
Bank of England
Battersea Polytechnic
Bayer Products Ltd
British Electricity Authority
Bolton Corporation
Bridgend Paper Mills
British European Airways
British Overseas Airways Corporation
British Oxygen Co
British Petroleum Co Ltd
British Railways
W J Bush & Co
Carbodies Ltd
Cardinal Griffin School, Poplar
Charrington & Co
Church of England Building Society
William Crawford Ltd
Crown Agents for the Colonies
Daily Express
Dewrance Ltd
Dexion Ltd
John Dickinson & Co. Ltd
Doulton & Co
Dundee Corporation
East African Railways
Eastmans (Dyers & Cleaners) Ltd
Edmunds Walker Ltd
Enfield Cables
Enfield Rolling Mills
Ever Ready (G B) Ltd
Fox Bros
Gestetner Ltd
Gillette Industries Ltd
Girling Ltd
Godfrey Davis Ltd
Goodwood Park Racecourse
Hebe Sports Limited
Thos. Hedley Ltd
I.C.I. Ltd
Institute Marine Engineers
Iranian Oil Participants Ltd
Jacqmar Ltd
Kempton Park Racecourse
Kendal Milne Ltd
W J Knox Ltd
Liverpool Corporation
Lloyds Bank Ltd

London Airport
London Paper Mills Ltd
J Lyons & Co
May & Baker Ltd
Metal Box Co Ltd
Metropolitan Police
Metropolitan Waterboard
Metropolitan Vickers (Electrical) Ltd
Middlesex County Council
Ministry of Supply
Ministry of Works
Morgan Crucible Ltd
Morris Motors Ltd
Nuffield Exports Ltd
Penguin Books Ltd
Pettigrew & Stephens Ltd
Pilkington Bros Ltd
Richard Thomas & Baldwin Ltd
Rolls Razor Ltd
Rolls Royce Ltd
Rootes Ltd
Rotax Ltd
Rover Company Ltd
Royal Institute of British Architects
Ryvita Co Ltd
J Sainsbury Ltd
Shell Petroleum Co Ltd
St Georges R.C. School, Maida Vale
Standard Motor Co Ltd
Sun Printers Ltd
Tecalmit Ltd
Times Book Co Ltd
Toni Cosmetics Ltd
Tote Investors Ltd
Trollope & Colls Ltd
Ultra Electric Ltd
United Glass Bottle Manufacturers Ltd
United Kingdom Atomic Energy Commission
University College School
Valves Ltd
Van der Berghs & Jurgens Ltd
Wardle & Davenport Ltd
War Office
Waterloo Air Terminal
Weatherby Oil Gears
Westminster Hospital
George Wimpey & Co Ltd

ENGLISH CLOCK SYSTEMS

HEAD OFFICE: 179-185 GT. PORTLAND ST., LONDON, W.1 TEL.: LANGHAM 7226

NORTHERN SALES OFFICE: YORK HOUSE, 12 YORK STREET, MANGHESTER 2. TEL.: CENTRAL 0858

SCOTTISH SALES OFFICE: 123-145 NORTH STREET, GLASGOW, C.3. TEL.: CENTRAL 3972

NORTHERN IRELAND SALES OFFICE: 19 ORMEAU AVENUE, BELFAST. TEL.: BELFAST 29471

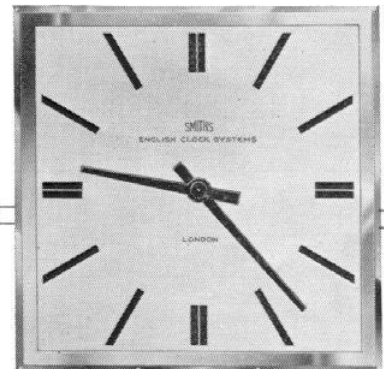
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INTERIOR AND EXTERIOR CLOCKS

Made by ENGLISH CLOCK SYSTEMS*

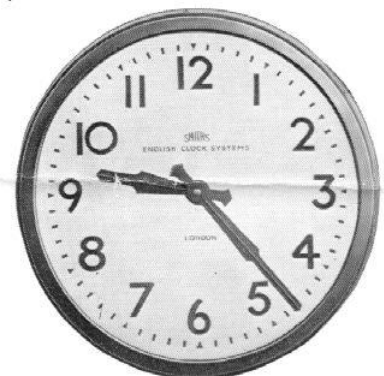
All the clocks illustrated are fitted with Smiths Self-starting Synchronous Movements or Impulse Movements for operation from Pendulum Master Clock

SINGLE-SIDED FLUSH MOUNTING CLOCKS



ARUN/2

Both models are suitable for indoor or outdoor use. Bronze-finished bezels. Fixing holes for ease of screwing to mounting. Metal or glass dials. If internal illumination is required, light fittings must be built into wall aperture. These fittings are not supplied. Axe model available with chaplets or Arabic figures. Dial sizes 18", 24", 30" or 36".

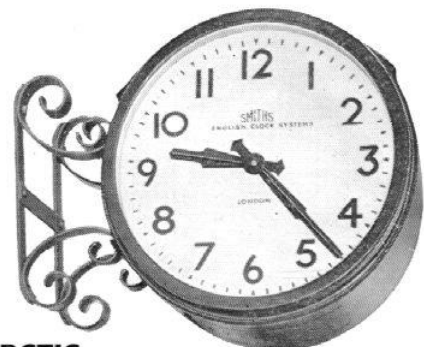


AXE

DOUBLE-SIDED BRACKET MOUNTING CLOCK

Circular clock with fixing bracket. Made of heavy-gauge lead-coated sheet steel, metal or glass dials. Internal light fittings supplied with glass dial model. Finished in standard bronze. Dial sizes 18", 24", 30" or 36".

Also ALASKA model, specification as above but with square dials and case and suitably styled bracket.

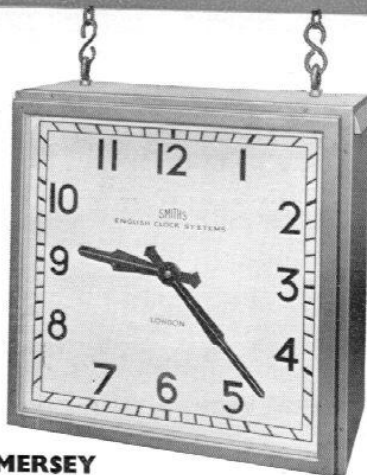


ARCTIC

DOUBLE-SIDED SUSPENSION CLOCKS



SEVERN



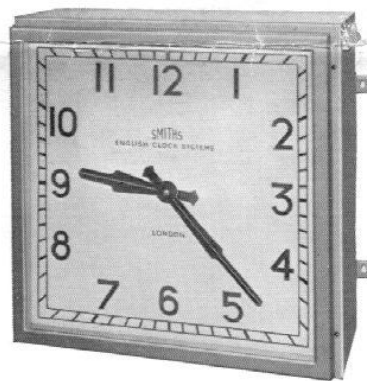
MERSEY

Both models made of heavy-gauge lead-coated sheet steel. Metal or glass dials. Internal light fittings supplied with glass dial models. Fitted with inspection door in base and eyes for chain suspension. Chains not included. Dial sizes 18", 24", 30" or 36".

SINGLE-SIDED WALL CLOCKS



THAMES



TRENT

Both models made of heavy-gauge lead-coated sheet steel. Metal or glass dials. Internal light fittings supplied with glass dial models. Fitted with inspection door in base. Dial sizes 18", 24", 30" or 36".

STANDARD FINISH
for all clock cases is bronze.
Any other stove-enamelled finish
can be supplied at no extra cost.

All sizes quoted are visible dial
sizes.

ENGLISH CLOCK SYSTEMS

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