

16. Public Clocks

Turret clocks & Cupolas. Weathervanes. Clock controllers.

TURRET CLOCKS

Complete clocks ready for mounting onto cupolas, turrets or walls. Fully weatherproof. Convex glass fibre dials with copper hands. Hands and numerals are gold leafed except on white models, which are black painted. All use 240v. 50Hz. and can be fitted with optional re-synchronizers. The domestic movement uses a 24v transformer. The heavy duty unit is a high quality mechanism with rear setting index etc. Optional Radio control is also available in most areas to ensure accuracy. Easily installed by fixing with brass wood screws & mastic.

Nominal Size	Outside diameter	Actual face diameter	Numeral height	Movement used
1'	330mm	270mm	40mm	Domestic
1'6"	480mm	395mm	65mm	Domestic
2'	595mm	510mm	85mm	Standard
2'6"	820mm	750mm	100mm	Standard
3'	945mm	815mm	130mm	Heavy Duty
4'	1210mm	1075mm	165mm	Heavy Duty
5'	1500mm	1340mm	205mm	Extra H/Duty

TURRET CLOCKS - BLACK

Price per unit

	TURRET CLOCK 1'	0905 001202	1+	£ 215.00
	TURRET CLOCK 1'6"	0905 001802	1+	£ 259.00
	TURRET CLOCK 2'	0905 002402	1+	£ 463.00
	TURRET CLOCK 2'6"	0905 003002	1+	£ 645.00
	TURRET CLOCK 3'	0905 003602	1+	£ 749.00
	TURRET CLOCK 4'	0905 004802	1+	£ 875.00
	TURRET CLOCK 5'	0905 006002	1+	£ 1218.00

TURRET CLOCKS - WHITE WITH BLACK NUMERALS

Price per unit

	TURRET CLOCK 1'	0905 001223	1+	£ 230.00
	TURRET CLOCK 1'6"	0905 001823	1+	£ 259.00
	TURRET CLOCK 2'	0905 002423	1+	£ 463.00
	TURRET CLOCK 2'6"	0905 003023	1+	£ 645.00
	TURRET CLOCK 3'	0905 003623	1+	£ 750.00
	TURRET CLOCK 4'	0905 004823	1+	£ 918.00
	TURRET CLOCK 5'	0905 006023	1+	£ 1218.00

TURRET CLOCKS - DARK BLUE

Price per unit

	TURRET CLOCK 1'	0905 001221	1+	£ 230.00
	TURRET CLOCK 1'6"	0905 001821	1+	£ 275.00
	TURRET CLOCK 2'	0905 002421	1+	£ 479.00
	TURRET CLOCK 2'6"	0905 003021	1+	£ 661.00
	TURRET CLOCK 3'	0905 003621	1+	£ 766.00
	TURRET CLOCK 4'	0905 004821	1+	£ 929.00
	TURRET CLOCK 5'	0905 006021	1+	£ 1295.00


TURRET CLOCKS - GREEN

Price per unit

	TURRET CLOCK 1'	0905 001207	1+	£ 230.00
	TURRET CLOCK 1'6"	0905 001807	1+	£ 275.00
	TURRET CLOCK 2'	0905 002407	1+	£ 479.00
	TURRET CLOCK 2'6"	0905 003007	1+	£ 661.00
	TURRET CLOCK 3'	0905 003607	1+	£ 729.00
	TURRET CLOCK 4'	0905 004807	1+	£ 885.00
	TURRET CLOCK 5'	0905 006007	1+	£ 1233.00

TURRET CLOCKS - LIGHT BLUE

Price per unit

	TURRET CLOCK 1'	0905 001217	1+	£ 230.00
	TURRET CLOCK 1'6"	0905 001817	1+	£ 275.00
	TURRET CLOCK 2'	0905 002417	1+	£ 479.00
	TURRET CLOCK 2'6"	0905 003017	1+	£ 661.00
	TURRET CLOCK 3'	0905 003617	1+	£ 729.00
	TURRET CLOCK 4'	0905 004817	1+	£ 885.00
	TURRET CLOCK 5'	0905 006017	1+	£ 1233.00

TURRET CLOCKS - MAROON

Price per unit

	TURRET CLOCK 1'	0905 001213	1+	£ 220.00
	TURRET CLOCK 1'6"	0905 001813	1+	£ 275.00
	TURRET CLOCK 2'	0905 002413	1+	£ 456.00
	TURRET CLOCK 2'6"	0905 003013	1+	£ 630.00
	TURRET CLOCK 3'	0905 003613	1+	£ 729.00
	TURRET CLOCK 4'	0905 004813	1+	£ 885.00
	TURRET CLOCK 5'	0905 006013	1+	£ 1233.00

TURRET CLOCKS - RED

Price per unit

	TURRET CLOCK 1'	0905 001218	1+	£ 220.00
	TURRET CLOCK 1'6"	0905 001818	1+	£ 262.00
	TURRET CLOCK 2'	0905 002418	1+	£ 456.00
	TURRET CLOCK 2'6"	0905 003018	1+	£ 630.00
	TURRET CLOCK 3'	0905 003618	1+	£ 729.00
	TURRET CLOCK 4'	0905 004818	1+	£ 885.00
	TURRET CLOCK 5'	0905 006018	1+	£ 1233.00

16. Public Clocks

TURRET CLOCKS - VIOLET

		Price per unit	
	TURRET CLOCK 1'	0905 001222	1+ £ 220.00
	TURRET CLOCK 1'6"	0905 001822	1+ £ 262.00
	TURRET CLOCK 2'	0905 002422	1+ £ 456.00
	TURRET CLOCK 2'6"	0905 003022	1+ £ 630.00
	TURRET CLOCK 3'	0905 003622	1+ £ 729.00
	TURRET CLOCK 4'	0905 004822	1+ £ 885.00
	TURRET CLOCK 5'	0905 006022	1+ £ 1233.00

MECHANISMS & CONTROLLERS

Synchronous clocks are the most common type of clock mechanism. These derive their timekeeping from the electricity supply company who go to great lengths to provide an accurate mains frequency of 50 cycles per second. Even if it were to drop slightly during a period of extreme demand, they normally make it up later to maintain an overall accuracy. Hence the name synchronous, being synchronised with the supply. A simple 240v 50Hz. supply is needed. Overseas customers should check their local voltage and frequency before ordering. The voltage can be changed by a transformer, but the 50 cycles per second (Hz.) controls the timekeeping. Some countries such as the USA use 60Hz. The current consumption is minimal.

These clocks are dependant upon a continuous mains supply. If it fails they will stop and resume again when the supply is returned. They will then be slow by the duration of the power failure.

Battery back-up devices are available which cut in as soon as a power failure is detected. These keep the clocks running for a number of hours (depending on their capacity and the number and size of the motors) and are re-charged automatically when power is resumed. The result is that short failures have no overall effect on the timekeeping, but eventually the batteries run out and the clock stops.

Re-synchronizers also have re-chargeable batteries, but these do not attempt to drive the clock. The unit records the position of the hands when the failure took place. When power is resumed, the supply to the motor is not allowed through the unit until 12 hours (or multiples of 12) have elapsed since the failure took place. In effect, it waits until time catches up with the stationary hands and off they go. So, no matter how long the power cut (within reason) the clock will be re-synchronised with the mains supply within a maximum of 12 hours after power is restored. These units also make the change from summer time and GMT very easy. At the flick of a switch, the clocks stop for 1 hour or stop for 11 hours. The 11 hours pause effectively advances the clock by one hour.


The two systems can be combined, so that short power cuts have no effect, whilst long ones are corrected automatically.

Pulsed mechanisms work on a 'master and slave' principle. This is particularly advantageous when many faces are used, perhaps throughout a factory complex or hospital. They all show the same time, as they each get the same pulse every half or one minute from a master controller. Pulsed mechanisms depend upon the electricity supply to their master.

Radio master controllers monitor the signals from Rugby's atomic clock periodically. This is checked against the position of the hands and should any discrepancy occur, the hands are adjusted automatically. This provides very accurate timekeeping, and the BST/GMT time changes are made automatically, being transmitted by Rugby when appropriate. It can control up to four slave clocks.

They have rechargeable batteries. Battery back-up units can be fitted to these, to maintain power during short failures. However, backup devices do not maintain the same time accuracy as the domestic electricity supply companies, so they are not recommended for synchronous movements except in areas of frequent short failures.














MASTER CLOCK CONTROLLER

		Price per unit	
	MASTER CLOCK CONTROLLER	1190 000115	1+ £ 519.75
	<p>Guarantee accuracy of a public clock by using the radio signals transmitted from the Rugby MSF clock. This atomic clock is very accurate and the signals cover an area up to 1000km from Rugby and can therefore be picked up almost anywhere in the U.K. We cannot, of course, guarantee proper reception in every geographic location. The transmitter sends out a British time signal which is monitored by the unit. At the GMT/BST changes, the clock either stops for one hour or eleven hours. During power failures, the hands will stop but the unit will continue to monitor the time using trickle charged batteries until power is restored. When power is restored, the hands will remain stationary until they show the correct time. Will operate up to four synchronous movements.</p> <p>Weight 800g. 180mm high, 230mm wide, 85mm deep.</p>		

WEATHERVANES

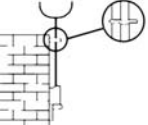
Full bodied copper weathervanes with steel pole, copper spacer balls and cast brass directionals. They are not just flat profiles but hollow vanes which will move in the slightest breeze.

Each is treated with an aged finish that looks like verdigris and will continue to mellow in time.

1 	2 	3 	4 	5 	6 	7 
8 	9 	10 	11 		Call Harvey for Same day dispatch*	
						* Conditions apply

		Price per unit	
1	COPPER ARROW WEATHERVANE	0906 000115	1+ £ 125.00
2	COPPER COW WEATHERVANE	0906 000215	1+ £ 150.00
3	COPPER DOG WEATHERVANE	0906 000315	1+ £ 152.00
4	COPPER FISH WEATHERVANE	0906 000415	1+ £ 152.00
5	COPPER GOLFER WEATHERVANE	0906 000515	1+ £ 145.00
6	COPPER HORSE WEATHERVANE	0906 000615	1+ £ 152.00
7	COPPER LARGE ROOSTER WEATHERVANE	0906 000715	1+ £ 178.00
8	COPPER STANDARD SAILBOAT WEATHERVANE	0906 000815	1+ £ 173.00
9	COPPER LARGE SAILBOAT WEATHERVANE	0906 000915	1+ £ 199.00
10	COPPER STAG WEATHERVANE	0906 001015	1+ £ 157.00
11	COPPER STANDARD ROOSTER WEATHERVANE	0906 002015	1+ £ 146.00

MOUNTING BRACKET FOR WEATHER VANE

		Price per unit	
	MOUNTING BRACKET FOR WEATHER VANE A specially designed bracket to simplify mounting our weathervanes. Sturdy construction.	0983 000115	1+ £ 30.97