# Sidus F1C – 6 function electronic timer with built in RCDT

Developed in conjunction with experienced F1C modellers, this dependable device holds full protection against many typical problems of the modern F1C models, mostly caused by their high frequency vibrations and fuel. Mainly intended as a replacement of popular clockwork timers, it is easy to use for any modelers, often unskilled in computers and electronics. Key advantages are accurate timings, remotely controlled dethermalization (RCDT) and the ability to be programmed through a wireless interface.

Mechanical assembly & magnetic start switch

Functions are operated by a rugged micro servo, having top ball bearing and Karbonite gear, which is stepped to release levers. The levers are mounted in a CNC machined face plate which incorporates a ball race to take the loads imposed by them and relief the servo that only applies torque to rotate the disc when a programmed function expires. Wing-wiggler function is selectable. The system comes complete with a magnetic sensor start switch (HALL effect) for complete immunity from vibration, fuel, rain and dust.

6-FUNCTION FACEPLATE
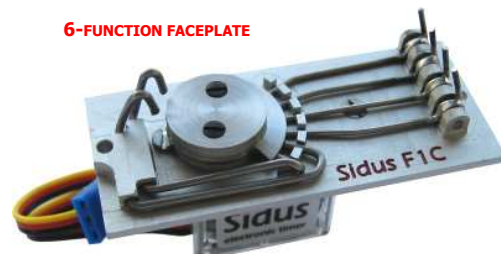
Control board

A tiny electronic board with only one rugged pushbutton controls the micro servo that releases the arms at the end of each of the 6 programmed functions. A powerful microcontroller performs all the tasks needed to drive the micro servo, communicate with the programmer, monitor the battery conditions and implement a number of fail-safe functions to guarantee flawless operations. All the parameters are permanently stored onto the timer memory, and retained even if the battery is disconnected.

CONTROL BOARD

MAGNETIC START SWITCH
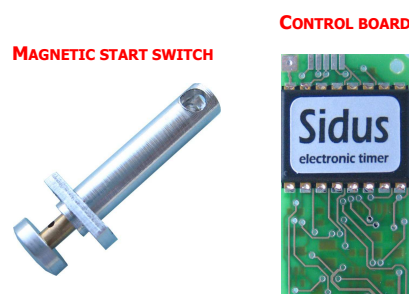
Wireless programmer

A pocket sized box with only 4 keys and a large LCD display, is used as control unit and RCDT transmitter. To change the timing just read the current values from the timer, then modify them on the programmer LCD and transmit them back to the timer. The devices communicate through an optical link, therefore external wiring is completely eliminated. A long range radio interface on the ISM band is used for the RCDT.

PROGRAMMER

TECHNICAL DATA

TIMER

Nr. of functions .... 6 (F1 to F6)
Configurations .... 2 front + 4 rear arms, 1 front + 5 rear arms, Wing-Wiggler
Timing .... F1: 0.01 to 9.99 sec, F2 to F5: 0.1 to 99.9 sec, F6: 1 to 720 sec
Size .... mm 58.0 w x 25.4 h x 24.5 d (2.28" x 1.0" x .96")
Control board size ..... mm 46.0 w x 22.0 h
Weight .... ~ 35 grams including pushbutton and battery pack
RCDT .... built-in receiver and whip antenna – code encryption
Battery pack .... rechargeable lithium polymer cells - duration exceeds 80 flights of 180 sec. each

PROGRAMMER

Display .... LCD - 2 lines x 16 characters
Keyboard.................. 4 keys
Size .... 113 x 59 x 24 mm (4.5" x 2.3" x .95")
RCDT .... built-in transmitter and helical antenna – code encryption
Battery pack .... rechargeable lithium polymer cell – duration exceeds 1 year

BATTERY