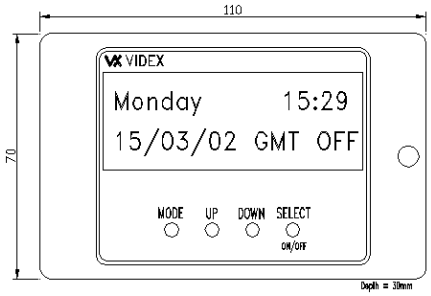
701T(28G) Digital time clock with BST/GMT automatic correction, back lit LCD display and trade button input

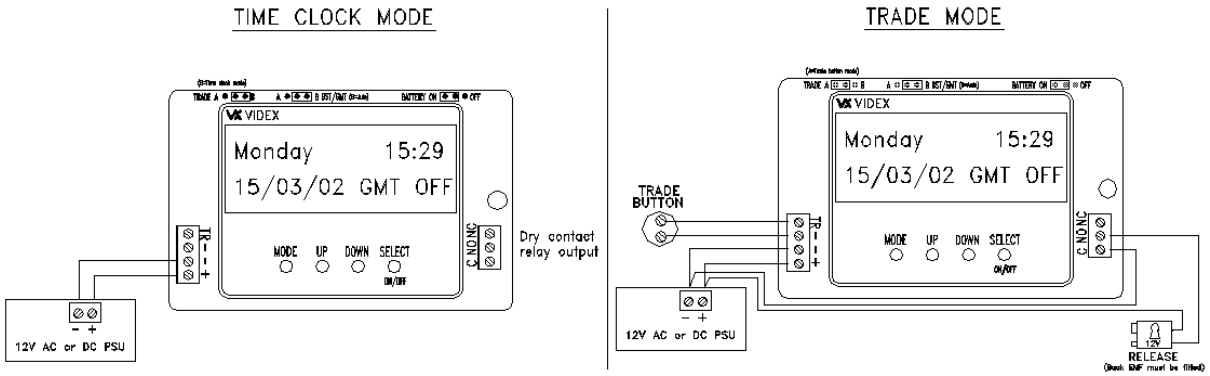
Introduction

The digital time clock has been designed particularly for the access control market. It incorporates all the features required from a time clock including:-

- 12V AC or DC operation.
- Dry Contact 3A rated relay output.
- Six fully programmable ON/OFF times. The times can be set for a single day of the week, weekends, week days or all days. To disable an ON/OFF time simply set the ON time the same as the OFF time.
- Three month rechargeable on board battery backup which will maintain the correct time and all time bands during mains failures. The battery backup facility can be disabled, by moving JP3 into position B.
- Automatic British summer time correction (BST/GMT). If this feature is not required it can be disabled, by moving JP2 into position A.
- Manual over ride button to toggle the relay on and off in standby mode (NOTE: The relay will stay in the state it is left until the next on/off time period).
- Trade button input: When the time clock is used in trade mode, the relay will only energise when the trade button is pressed and then, only during an active time band. The time clock can be switched into trade mode by moving JP1 into position A. When JP1 is in position B the relay will energise for the full duration of an active time band.
- Trade activated relay time can be adjusted from 1 second up to 99 seconds during programming.
- All information is displayed on an easy to read 2 lines 16 characters back lit LCD display.
- The time clock is mounted within an ABS white wall mountable plastic box.



In standby mode the time clock display will show the current day of the week, the time and date. It will also show if the time is British summer time (BST) or Greenwich Mean Time (GMT). Finally the display will indicate if the relay is ON or OFF. When this is flashing it indicates the time clock is in trade mode and so the relay will only energise when the trade button is pressed (The ON/OFF flashing, only indicates if a time band is on or off).

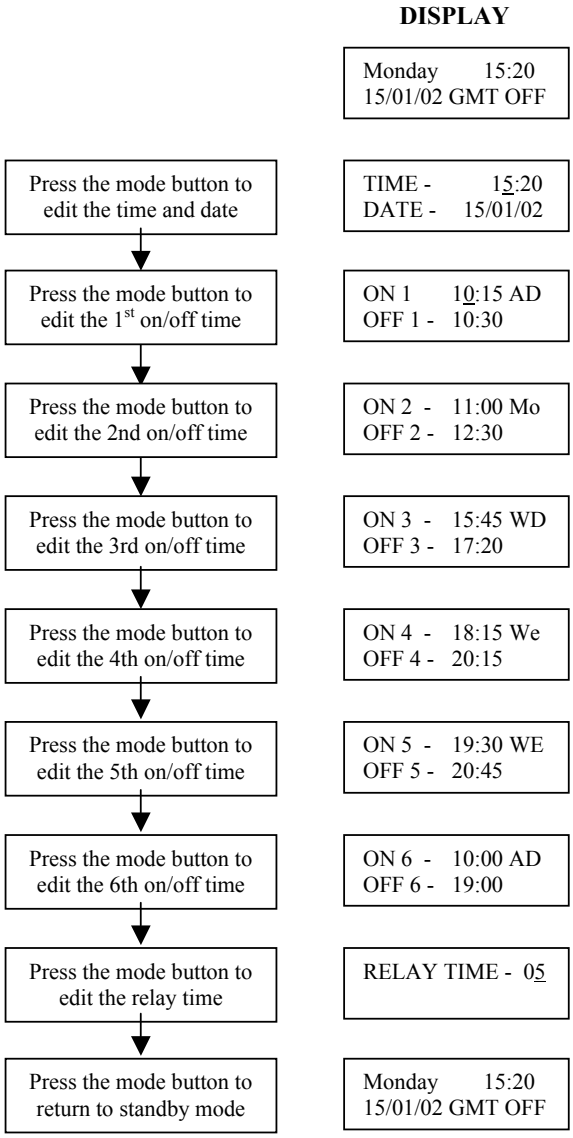


Connections

+12V	-	12V DC or AC
Gnd	-	Ground
Trade	-	For connection of a normally open trade button to Gnd
CO	-	Common connection on relay
NO	-	Normally open connection on relay
NC	-	Normally closed connection on relay

Programming

Programming is carried out by means of the four push buttons. The mode button advances through the modes beginning with mode 1 which allows the editing of the time and date, mode 2 – 7 allows the editing of the time bands and mode 8 which allows the editing of the relay time in trade mode (Note: mode 8 only appears in trade mode). The up/down buttons allow the underlined information to be edited (pressing these buttons once will change the value by one, holding the button down will auto increment the value until the button is released) and the select button allows the underline cursor to rotate round to the next item on the display. If the time clock is inadvertently left in programming mode it will automatically revert to standby mode after a preset time.



The days of the week are abbreviated as shown below

Monday	Mo
Tuesday	Tu
Wednesday	We
Thursday	Th
Friday	Fr
Saturday	Sa
Sunday	Su
Week Days	WD
Week Ends	WE
All Days	AD

NOTE: To reset the time clock completely, simply power up with the UP button pressed.

Technical Specification

Supply Voltage	:	12V DC or 12V AC
Standby Current (Relay off)	:	47mA
Standby Current (Relay on)	:	67mA
Battery backup	:	Min. 3 Months
Relay contacts (Dry contact)	:	3A @ 30V DC 3A @ 120V AC
On/Off times available	:	Six
Trade mode relay time	:	From 1 second to 99 seconds
Dimensions	:	110mm x 70mm x 30mm

If help is required for installing or operating this unit, please contact our technical department on:
+39 734 631669 (all countries) or 0191-224-3174 (UK)