

Art. 701T/24 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:

- 24V AC or DC operation.
- Dry Contact 3A rated relay output (CO, NO & NC).
- 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 (e.g. ON 1 = 00:00, OFF 1 = 00:00).
- On board battery backup that will maintain the correct time and all time bands during mains failures.
- Automatic British summer time correction (BST/GMT). If this feature is not required it can be disabled by moving JP2 into position A.
- Manual override button to toggle the relay ON and OFF in standby mode. The relay will stay in the state it is left until the next ON then 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.
- A manual accuracy adjustment allows the time to be correct + or - 1 to 7 seconds every 24 hours and can be used if the time clock runs fast or slow.
- All information is displayed on an easy to read 2 line 16 character 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). If the ON/OFF is fixed, this indicates the state of the relay.

CONNECTIONS

+24V	24V DC or AC
GND	Ground
TR & -	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

INITIALISATION

If the time clock has been powered down for a long period or if this is a new installation, power up with the 'UP' ▲ button pressed to reset the time clock.

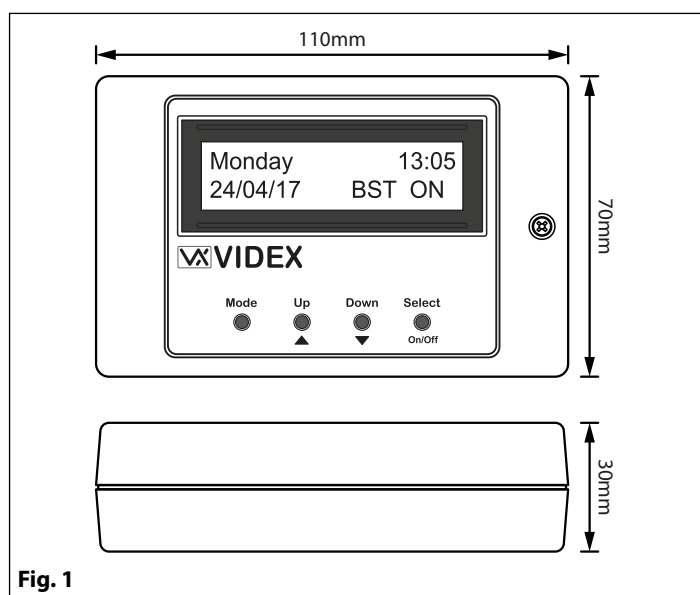


Fig. 1

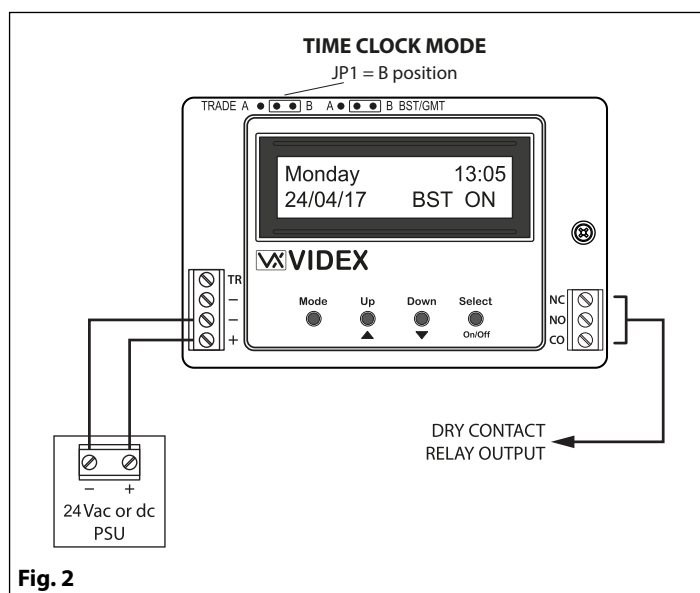


Fig. 2

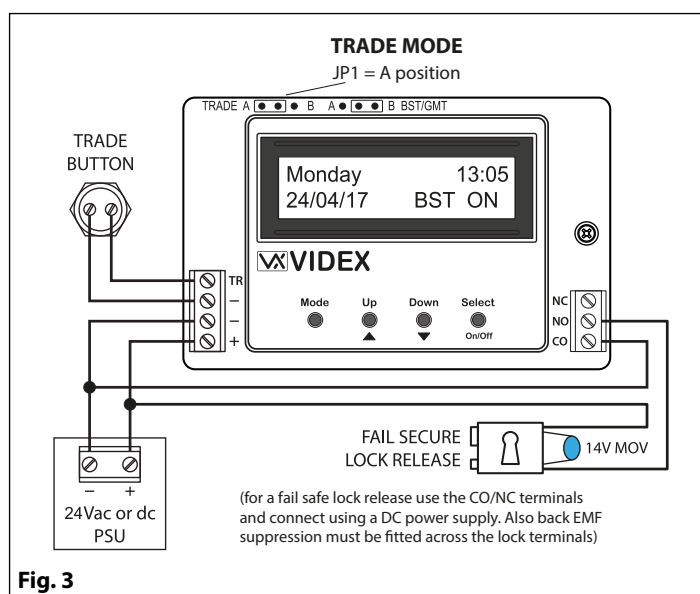


Fig. 3

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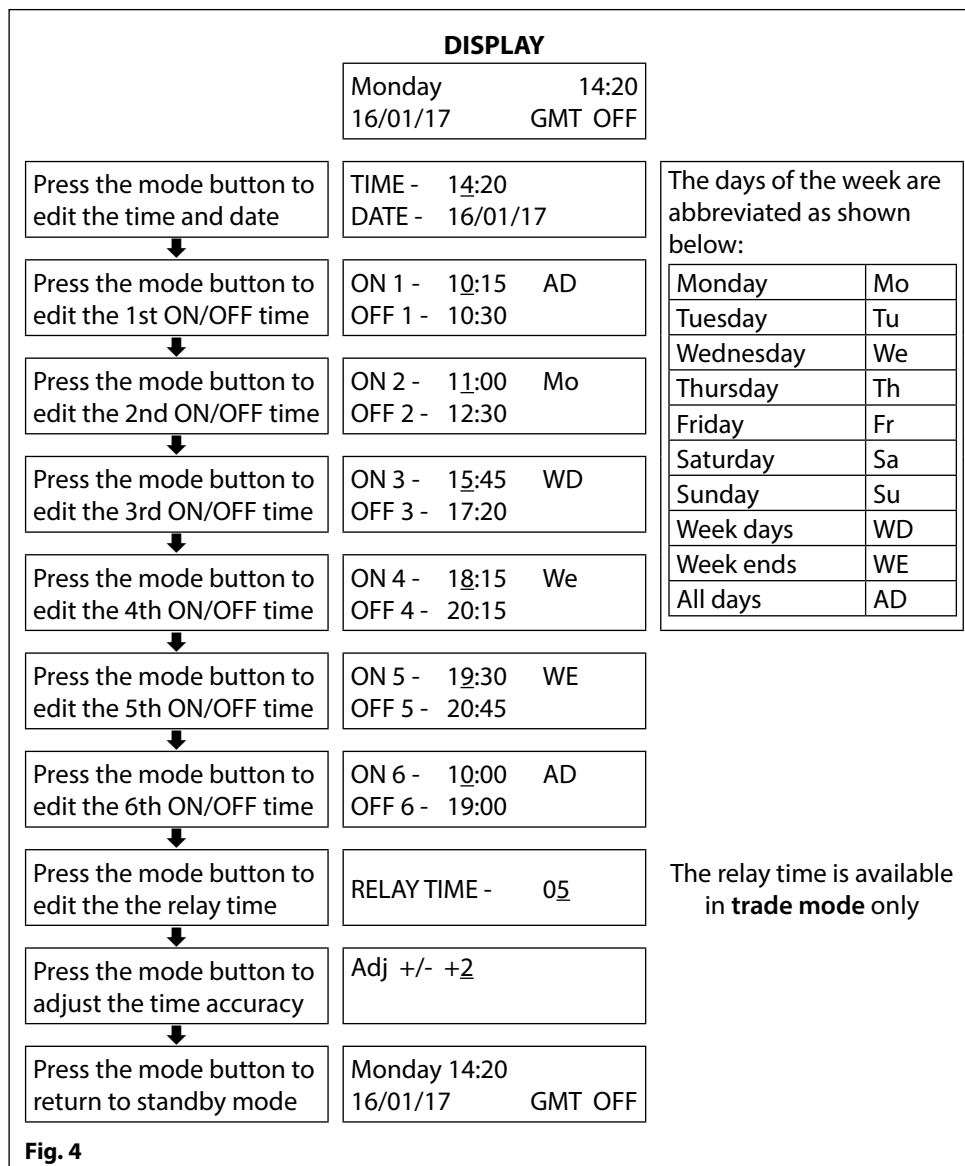
PROGRAMMING

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, modes 2 – 7 allows the editing of the time bands, mode 8 allows the editing of the relay time in **trade mode** (Note: mode 8 only appears in **trade mode**) and mode 9 can be used to improve the accuracy of the time keeping if the clock is running fast or slow.

The up/down (▲, ▼) buttons allows the underlined information to be edited (pressing these buttons once will change the value by one, holding the button down will automatically increment the value until the button is released).

The select button allows the underline cursor to advance through 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.

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



TECHNICAL SPECIFICATION

Supply Voltage: 24Vdc or 24Vac

Standby Current (Relay off): 47mA

Standby Current (Relay on): 67mA

Battery backup: Min. 8 days

Relay contacts (Dry contact): 3A@24Vdc
3A @ 120Vac

On/Off times available: Six

Time Accuracy: less than + or – 2 seconds drift per day

Trade mode relay time: From 1 second to 99 seconds

Dimensions: 110 x 70 x 30mm

Jumpers: JP1 (A = Trade mode, B = Time clock mode)

JP2 (A = BST/GMT Correction disabled, B = Automatic BST/GMT correction)

ENG DISPOSAL

In accordance with the Legislative Decree no. 49 of 14 March 2014 "Implementation of the Directive 2012/19/EU on waste electrical and electronic equipment (WEEE)".

The crossed-out bin symbol on the equipment or on the packaging indicates that when the product reaches the end of its lifetime, it must be collected separately from mixed municipal waste. The user must, therefore, dispose of the equipment at the end of its lifetime in the suitable waste collection centres or bring it to the retailer during the purchase of a new equipment of equivalent type at the ratio of one-to-one. Furthermore, the user is allowed to dispose of the WEEEs of very small size (domestic appliances without any external dimension exceeding 25 cm (9.84 inches) for free to the retailers, without any purchase obligation. The correct waste disposal of the WEEEs contributes to their reuse, recycling and recovery and avoids potential negative effects on the environment and human health due to the possible presence of dangerous substances within them.



ITA SMALTIMENTO

Ai sensi del Decreto Legislativo 14 marzo 2014, n° 49 "Attuazione della direttiva 2012/19/UE sui rifiuti di apparecchiature elettriche ed elettroniche (RAEE)".

Il simbolo del cassonetto barrato riportato sull'apparecchiatura o sulla sua confezione indica che il prodotto alla fine della propria vita utile deve essere raccolto separatamente dagli altri rifiuti urbani misti. L'utente dovrà, pertanto, conferire l'apparecchiatura giunta a fine vita presso gli idonei centri di raccolta differenziata oppure riconsegnarla al rivenditore al momento dell'acquisto di una nuova apparecchiatura di tipo equivalente, in ragione di uno a uno. L'utente ha, inoltre, la possibilità di conferire gratuitamente presso i distributori, senza alcun obbligo di acquisto, per i RAEE di piccolissime dimensioni (per le apparecchiature di tipo domestico con nessuna dimensione esterna superiore a 25 cm). L'adeguata raccolta differenziata dei RAEE contribuisce al loro riutilizzo, riciclaggio e recupero ed evita potenziali effetti negativi sull'ambiente e sulla salute umana dovuti alla eventuale presenza di sostanze pericolose al loro interno.

FRA ÉLIMINATION

Conformément au décret législatif n° 49 du 14 mars 2014 relatif à l'« Application de la directive 2012/19 / UE relative aux déchets d'équipements électriques et électroniques (DEEE) ».

Le symbole de la poubelle barrée sur l'équipement ou sur son emballage indique que le produit en fin de vie utile doit être collecté séparément des autres déchets municipaux en mélange. L'utilisateur doit donc remettre l'équipement en fin de vie aux centres de collecte appropriés ou le restituer au revendeur lors de l'achat d'un nouveau type d'équipement équivalent, dans le rapport de un à un. De plus, l'utilisateur a la possibilité de conférer gratuitement aux distributeurs, sans aucune obligation d'achat, de très petits DEEE (pour les appareils ménagers sans dimensions extérieures supérieures à 25 cm). La collecte séparée adéquate des DEEE contribue à leur réutilisation, leur recyclage et leur valorisation et évite les éventuels effets négatifs sur l'environnement et la santé humaine en raison de la présence possible de substances dangereuses dans ceux-ci.

SPA ELIMINACIÓN

De conformidad con el Decreto legislativo n. 49 de 14 de marzo 2014 "Aplicación de la Directiva 2012/19/UE relativa a residuos de aparatos eléctricos y electrónicos (RAEE)".

El símbolo del contenedor tachado indicado sobre los aparatos o sobre los embalajes señala que el producto al final de su vida útil debe ser recogido separadamente de otros residuos municipales mezclados. Por tanto, el usuario deberá conferir los aparatos al final de su vida útil en los apropiados centros de recogida selectiva o devolverlos al revendedor al momento de la compra de nuevos aparatos equivalentes, en una relación de uno a uno. Además, el usuario tiene la posibilidad de entregar sin cargo a los distribuidores, sin ninguna obligación de compra, los RAEEs muy pequeños (para electrodomésticos sin dimensiones externas superiores a 25 cm).

La recogida selectiva apropiada de los RAEEs contribuye a su reutilización, reciclaje y valorización y evita potenciales impactos negativos sobre el medio ambiente y la salud humana debidos a la posible presencia de sustancias peligrosas dentro de ellos.

NLD VERWIJDERING

In overeenstemming met het Wetsbesluit nr. 49 van 14 maart 2015 "Implementatie van de Richtlijn 2012/19/EU inzake afgedankte elektrische en elektronische apparaten (AEEA)".

Het doorgekruiste vuilnisbaksymbool op het apparaat of de verpakking geeft aan dat het product aan het einde van zijn levensduur niet samen met het gewone huisvuil weggegooid mag worden. De gebruiker moet het apparaat aan het einde van zijn levensduur inleveren bij een gepast inzamelpunt of de winkel waar hij een nieuw apparaat van een gelijksoortig type zal kopen. De gebruiker kan tevens AEEA's van een zeer klein formaat (huishoudapparaten met een buitenafmeting kleiner dan 25 cm (9,84 inch)) gratis en zonder enige aankoopverplichting bij handelaars inleveren. Een juiste verwijdering van AEEA's draagt bij tot hergebruik, recycling en terugwinning, en voorkomt potentiële negatieve effecten op het milieu en de menselijke gezondheid door de mogelijke aanwezigheid van gevaarlijke stoffen.

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The product is CE marked demonstrating its conformity and is for distribution within all member states of the EU with no restrictions. This product follows the provisions of the European Directives 2014/30/EU (EMC); 2014/35/EU (LVD); 2011/65/EU (RoHS); CE marking 93/68/EEC.

Il prodotto è marchiato CE a dimostrazione della sua conformità e può essere distribuito liberamente all'interno dei paesi membri dell'Unione Europea UE. Questo prodotto è conforme alle direttive Europee: 2014/30/UE (EMC); 2014/35/UE (LVD); 2011/65/UE (RoHS); marcatura CE 93/68/EEC.

Le produit est marqué CE à preuve de sa conformité et peut être distribué librement à l'intérieur des pays membres de l'union européenne EU. Ce produit est conforme aux directives européennes 2014/30/EU (EMC); 2014/35/EU (LVD); 2011/65/EU (RoHS); marquage CE 93/68/EEC.

El producto lleva la marca CE que demuestra su conformidad y puede ser distribuido en todos los estados miembros de la unión europea UE. Este producto cumple con las Directivas Europeas 2014/30/EU (EMC); 2014/35/EU (LVD); 2011/65/EU (RoHS); marca CE 93/68/EEC.

Het product heeft de CE-markering om de conformiteit ervan aan te tonen en is bestemd voor distributie binnen de lidstaten van de EU zonder beperkingen. Dit product volgt de bepalingen van de Europese Richtlijnen 2014/30/EU (EMC); 2014/35/EU (LVD); 2011/65/EU (RoHS); CE-markering 93/68/EEG.

يحمل المنتج علامة التوافق الأوروبي CE لإظهار توافقه مع المواصفات ذات الصلة وإمكانية توزيعه في كافة دول الاتحاد الأوروبي بدون أية قيود. يلبي هذا المنتج جميع متطلبات التوجيهات الأوروبية 2014/30/UE (EMC); 2014/35/UE (LVD); 2011/65/UE (RoHS); علامة المطابقة للمواصفات الأوروبية 93/68/EEC.



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