



DigiPro

Software Instructions

DigiPro Technical Reference Manual

This manual details features, initial lock set up and operation. Software and circuit boards are created, designed and produced by Paolo Moretti, our partner in Italy.



DigiPro TE20-xx(30A)

The DigiPro TE20-xx(30A) keypad works with:



Universal RotoBolt
UR40-60



UL Type 1
VdS EN1300 Class B

Large RotoBolt
EM20-60



UL Type 1
VdS EN1300 Class B

Straight Bolt
EM35-60



UL Type 1
VdS EN1300 Class B

MotorDrive
EM30-60



VdS EN1300 Class B

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DigiPro Software

Instructions

DigiPro (TE20-xx30A) – Features, Set Up and Operation

Please note that **initial set up must be completed**, and time and date set, prior to putting the lock into service.

Table of contents

Description

<i>Works With</i>	2
<i>Connectors</i>	2

Features

<i>Code Levels</i>	2
<i>Alarm</i>	2
<i>Time & Date Stamped Audit</i>	2
<i>Automatic Daylight Saving Time</i>	2
<i>Wrong Try Penalty</i>	2
<i>Number of Users</i>	2
<i>Dual Control</i>	2
<i>Immediate Time Lock</i>	2
<i>Variable Code Length</i>	3
<i>Time Delay</i>	3
<i>Time Lock</i>	3
<i>Languages</i>	3

Set Up Process

<i>Factory Mode</i>	3
<i>Setting Lock Options</i>	3-4

Functions

<i>To change Codes (Function 0)</i>	4
<i>To activate User Codes (Function 1)</i>	5
<i>To activate/display/change status for all Users (Function 2)</i>	5
<i>To delete existing Codes (Function 3)</i>	6
<i>To test Lock/Keypad function (Function 5)</i>	6
<i>To program/adjust Date and Time options (Function 6)</i>	6-7
<i>To program Time Lock (Function 6)</i>	7-8
<i>To view Audit (Function 7)</i>	8
<i>To revisit Set Up options (Function 8)</i>	9
<i>To program/change Time Delay (Function 9)</i>	9

Factory Reset Procedure

<i>Factory reset</i>	10
----------------------------	----

Operation

<i>Immediate Time Lock</i>	10
<i>[OK] menu</i>	10
<i>To open (Standard mode)</i>	11
<i>To open (Time Delay)</i>	11
<i>To open (Override mode)</i>	11
<i>To open (Dual control mode)</i>	11
<i>Important Notes</i>	11

DigiPro Software

Instructions

Description

Works with

UR40-60 Universal RotoBolt, EM20-60 Large RotoBolt, EM35-60 Straight Bolt and EM30-60 MotorDrive are all compatible with TE20xx(30A) keypads with OLED screen.

Connectors

Standard 4-wire connector to keypad: data, LED/buzzer and battery. Additional 4-wire connector to battery pack and/or I/O interface on RotoBolt, StraightBolt, MotorDrive only

Features

3 second opening window following entry of a valid code

Code Levels

- ◆ One 8-digit Master Code (optional, ID=39) for Lock Options set up, Time Lock set up and Factory Reset. Master Code cannot open the lock.
- ◆ One 6 to 8-digit Service Code (optional, ID=38) can delete/install Manager Code (together with another valid Code), can program Time Lock and Time Delay. Service code cannot open the lock.
- ◆ One 6 to 8-digit Manager Code (ID=00 or 0) can manage Users and program Time Delay. Manager code can open the lock.
- ◆ Up to thirty (IDs=1 to 30) 6 to 8-digit User Codes, can open the lock.
- ◆ Up to four (IDs=31-34) 6 to 8-digit Time Delay Override (TDO) Codes, cannot open the lock, for TDO only.
- ◆ Important: New codes are rejected when only a single digit differs from existing codes. Example: existing code is 1-2-3-4-5-6, 1-3-3-4-5-6 cannot be set as it is one digit off from existing code. 1-2-2-3-5-6 (2 digits off from existing code) would be acceptable.
- ◆ Duress Alarm – +1 on Code last digit; if a satellite alarm box is connected to the lock, Signal and Remote Disable input options are automatically installed during functional test (see F5 below).
- ◆ Audit – a time and date-stamped listing of Open/Close events may be displayed on the OLED. Contact your Qnetic Sales Team or your Administrator for downloadable Audit file options.
- ◆ Automatic Daylight Saving Time (DST) with preprogrammed calendar. May be disabled through the keypad.

Note: EU, US or Mexico must be specified at time of order.

- ◆ Alphanumeric keypad with graphic OLED screen and 9V battery compartment.
- ◆ Wrong try penalty – five-minute lockout initially after four invalid Code entries, subsequently after two wrong tries. This continues FOREVER or until a valid Code is entered. Removing the battery or keypad will not abort this anti-manipulation feature.

Programmable features of DigiPro (*default settings are underlined*):

- Number of Users – zero to nine (0-9), thirty (30), or thirty-four (34) which includes four (4) TDO Codes,
- Dual Control (YES/NO) – two Codes are required to open,

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- Immediate Time Lock (**MANAGER ONLY** or ALL USERS or DISABLED) – may be set at any time to immediately secure the container for the desired amount of time (72 hour maximum),
- Code Length – six (6), seven (7) or eight (8) digits, affects all but Master Code which is 8-digits,
- Time Delay – 0 to 99 minutes, Open Window – 1 to 19 minutes, count-up or count-down on display,
- Time Lock – daily Open period defines the time frame during which the Lock may be opened on selected days of the week, and
- Language – any one of six (6) different languages may be easily set/changed by any User.

Set Up Process

Factory Mode

Press [1] until double beep, release and OPEN LOCK is displayed

Single beep and blank display if any other number key is pressed

Long beep and ✘ is displayed if the lock is not connected to the keypad

Default Master Code (5-5-5-5-5-5-5-5) is the only valid Code when in Factory Mode and cannot open the lock.

Factory default options are: nine (9) available users, no Dual Control, Immediate Time Lock initiated by Manager only, and 6-digit Code length

Setting Lock Options (from Factory Mode only)

NOTE: These operations must be undertaken with the container door open and the boltwork in the locked position!!

Press and hold [8] until double beep, release and display shows SETUP with prompt for 8-digit Master Code.

Enter default Master Code (5-5-5-5-5-5-5-5)

CHANGE is displayed

IMPORTANT: Press [P] key to Proceed

Display shows DATE TIME, Press [OK] to enter Date & Time menu

Display shows FORMAT, press [P] to toggle Date formats: dd/mm (EU) or mm/dd (US) then [OK] to confirm

Display shows DST, press [P] to toggle automatic Daylight Saving Time adjustment NO/YES (OFF/ON), then [OK] to confirm

NOTE: Unless specified at time of order, DST calendar is EU ONLY by default. If in doubt, set to NO. If US or Mexico DST calendar is required, contact QSecurity or your administrator/installer for details.

Display shows TIME screen, enter current Time (in 24 hr. format), then [OK] to confirm, or [P] to skip

Display shows DATE screen, enter current Date, then [OK] to confirm, or [P] to skip,

double beep and ✓ = OK

Display shows SETUP, press [OK] to set Programmable Features

Number of available Users - press [P] to scroll through the options:

- 9 Users – Users from 1-9 can Open, unless Time Delay is activated. With TD activated, User 9 is TDO only and can only open in combination with another User to override Time Delay. User IDs are 1-9.

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DigiPro Software

Instructions

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- 30 Users – All Users can Open, User IDs are two digits: 01-30
- 34 Users – All Users from 01 to 30 can Open, User IDs are two digits: 01 to 34. Users 31 to 34 are TDO only and cannot Open alone. If Time Delay is programmed, Users 31-34 in combination with another User Code can override Time Delay.
- 0 Users – No User Codes can be added, only Manager Code can Open
- 1, 2, 3, 4...Users – Users from 1 to 9 will scroll and any number may be specified
- Press [OK] to confirm the displayed number of Users

Dual Control – YES/NO – press [P] to change mode, press [OK] to confirm as displayed

Immediate Time Lock – LOCKOUT MANAGER (ONLY) or LOCKOUT ALL (USERS) or DISABLED – press [P] to change mode, press [OK] to confirm as displayed

Code length (6, 7 or 8 digits) – press [P] to change Code length, press [OK] to confirm the displayed number Display shows QUIT?

Press [P], CHANGE is displayed, press [OK] to change default Master Code, NEW is displayed with prompt for a new 8-digit Master Code

Enter new 8-digit Master Code twice to confirm, double beep after each entry and ✓ = OK
Factory Mode is exited

Lock is now fully operational, and the number of Users selected are available but not active

Default Master Code has been reset to ____ _

NOTE: Default Master Code must be changed during set up and prior to putting Lock in service!
Manager Code is active with default Code 1-2-3-4-5-6 (6-digit) or 1-2-3-4-5-6-7 (7-digit)
or 1-2-3-4-5-6-7-8 (8-digit)

The following operations must be performed with the door open and the boltwork in the locked position where possible! Be aware that any Dual Control, Time Delay or Time Lock settings may impede or delay the ability to Open the Lock in order to relock the container.

To change Service, Manager or User Code (F0)

Press and hold [0] until double beep, release and display shows CHANGE
Enter Code to be changed, double beep. Long beep = entered code inactive
Enter new Code twice to confirm, double beep after each and ✓ = OK
NOTE: If code to be changed is unknown, delete (F3) and reactivate (F1)

To change Master Code (F0)

Press and hold [8] until double beep, release and display shows SETUP
Enter 8-digit Master Code, available Functions display as a series of numbers
Press and release [0], double beep and display shows NEW with prompt for code entry
Enter new Master Code twice to confirm, double beep after each and ✓ = OK



DigiPro Software

Instructions

To activate a new User Code (Manager Code) (F1)

NOTE: if Dual Control is active, enter a User Code first

Important: a new code will be rejected when only a single digit differs from an existing code

Example: existing code is 1-2-3-4-5-6, 1-3-3-4-5-6 (1 digit off) = ✘, 1-2-2-3-5-6 (2 digits off) = OK

Press and hold [1] until double beep, release and display shows INSTALL and code entry prompt

Enter Manager Code, then display prompts for ID of the new User to be installed, which may be one or two digits depending on the maximum number of users selected at Set Up

Enter the User ID, then [OK] to confirm installation of new User Code

If user is already installed, ✓ + double beep and display powers off, otherwise display shows NEW

Enter new User Code

If Code is valid (at least two digits different than any other stored Code), display shows CONFIRM, enter new Code a second time to confirm

Double beep after each and ✓ = OK

To activate a new Manager Code (Service Code w/User Code) (F1)

Press and hold [1] until double beep, release and display shows INSTALL

Enter Service Code, then display prompts for entry of a User Code

Enter User Code then [OK] to confirm new Manager Code activation

Enter new Manager Code twice to confirm, double beep after each and ✓ = OK

To activate a new Service Code (Master Code) (F1)

Press and hold [8] until double beep, release and display shows SETUP

Enter 8-digit Master Code

Available Functions are displayed as a series of numbers

Press and release [1], then [OK] to confirm new Service Code activation

Display prompts for new Service Code entry

Enter new Service Code twice to confirm, double beep after each and ✓ = OK

To activate/display/change status for all Users (Manager Code) (F2)

NOTE: if Dual Control is active, enter a User Code first

Press and hold [2] until double beep, release and display shows USERS

Enter Manager Code

Display shows User ID=1 or 01 and current status (✘= not yet active, += active, ⊖ = temporarily disabled)

Press [P] to scroll through all Users

Press [3] to delete the displayed User

Updated User status displays on the screen, followed by double beep and ✓ = OK

Press [2] to temporarily disable the displayed User

Updated User status displays on the screen, press [OK] to confirm, double beep and ✓ = OK

Press [1] to install/activate the displayed User, then enter new Code for selected User twice to confirm

Updated User status displays on the screen, press [OK] to confirm, double beep and ✓ = OK

Press [OK] when finished



DigiPro Software

Instructions

To delete an existing User Code (Manager Code) (F3)

NOTE: if Dual Control is active, enter a User Code first

Press and hold [3] until double beep, release and display shows DELETE

Enter Manager Code, then display prompts for ID of the User Code to be deleted, which may be one or two digits depending on the maximum number of users selected in Lock Options

Enter the User ID and [OK] to confirm deletion of the User Code

Double beep and ✓ = OK

To delete the Manager Code (Service Code w/User Code) (F3)

Press and hold [3] until double beep, release and display shows DELETE

Enter Service Code, then display prompts for entry of a User Code

Enter User Code then [OK] to confirm Manager Code deletion

Double beep and ✓ = OK

To delete the Service Code (Master Code) (F3)

Press and hold [8] until double beep, release and display shows SETUP

Enter 8-digit Master Code

Available Functions are displayed as a series of numbers

Press and release [3], double beep, then [OK] to confirm Service Code deletion

Double beep and ✓ = OK

Lock/Keypad Functional Test (F5)

Press and hold [5] until double beep, release and display shows TEST.

Enter the sequence 1-2-3-4-5-6-7-8-9-0. Double beep at each key press indicates keypad and lock are communicating properly. Make note of any long beeps (indicating errors) during the sequence, and repeat the process to confirm. If errors are confirmed, contact a technician BEFORE proceeding/putting the lock in service. At the end of this sequence, keypad also verifies if an alarm box is connected to the lock (alarm features are automatically activated when an alarm box is detected for the first time).

Double beep and ✓ = OK.

To program/adjust Date and Time (Service or Master Code) (F6)

with Service Code:

Press and hold [6] until double beep, release and display shows TIME.

Enter Service Code, then proceed from >>> below

with Master Code:

Press and hold [8] until double beep, release and display shows SETUP

Enter 8-digit Master Code

Available Functions are displayed as a series of numbers

Press and release [6], then proceed from >>> below

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Instructions

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>>>Display shows DATE TIME, press [OK] to confirm

Display shows FORMAT, press [P] to toggle Date formats: dd/mm (EU) or mm/dd (US), then [OK] to confirm

Display shows DST, press [P] to toggle automatic Daylight Saving Time adjustment NO/YES (OFF/ON), then [OK] to confirm

NOTE: Unless specified at time of order, DST calendar is EU ONLY by default. If in doubt, set to NO. If US or Mexico DST calendar is required, contact QSecurity or your administrator/installer for details.

Display shows TIME screen, enter current Time (24 hr. format), then [OK] to confirm, or [P] to skip

Display shows DATE screen, enter current Date, then [OK] to confirm, or [P] to skip, double beep and ✓ = OK

To program Time Lock (Service or Master Code) (F6)

Make sure Date and Time are properly set before setting time lock, use OK key to check

with Service Code:

Press and hold [6] until double beep, release and display shows TIME

Enter Service Code, then proceed from >>> below

with Master Code:

Press and hold [8] until double beep, release and display shows SETUP

Enter 8-digit Master Code

Available Functions are displayed as a series of numbers

Press and release [6], then proceed from >>> below

>>>Display shows DATE TIME, press [P] to proceed

Display shows TIME LOCK, press [OK]

If Daily Open Periods (DOPs) have been set:

Display shows those currently programmed. Press [P] to scroll through all Daily Open Periods, then [OK] when done.

If within an Open Period, display shows "CHANGE?", press "OK" to confirm programming of new daily time periods. Best practice: Delete existing DOPs before setting new DOPs.

To delete an Open period, set a new period with a duration of zero minutes within the existing Open period:

Example 1 - to delete an Open period of Monday-Friday 08:00 to 18:00, set a new Open period Monday-Friday from 09:00 to 09:00

Example 2 - to delete an Open period of Tuesday from 12:00 to 16:00, set a new Open period Tuesday from 14:00 to 14:00

Proceed from >>> below to set new DOPs

OR

If not within an existing DOP, display shows TIME LOCK ACTIVE, options are to wait and change within a DOP, or reset the Lock

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DigiPro Software

Instructions

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OR

When no DOP has been set:

Display shows "TIME LOCK", press "OK" to confirm

>>>Display shows CHANGE?, press [OK] to confirm programming of new DOPs

Display shows periods available for selection: Single day - time period applies only to the selected day of the week, or multiple days - Monday to Friday, Monday to Sunday or Saturday to Sunday, the time period applies to the selected group of days

Press [P] to scroll through the options and press [OK] to confirm selection

Display prompts for DOP time entry, enter start and end times (24-hour clock, in hours and minutes) for the selected day(s), then [OK] to confirm

When SAVE? is displayed, press [OK] to save the DOP entered or [P] to start over

When QUIT? is displayed, press [OK] to confirm and exit or [P] to go back to the DATE TIME screen

NOTE: Daily Open periods repeat forever until they are changed or deleted.

To view Audit (Service, Manager or Master Code) (F7)

Contact your Qnetic Sales Team or Administrator for downloadable Audit file options.

To display a time and date stamped listing of Open/Close events with User IDs:

with Service or Manager Code:

Press and hold [7] until double beep, release, and then display shows AUDIT and prompt for Code entry.

Enter Service or Manager Code.

If USB connection is detected, Audit is downloaded to the connected device, otherwise proceed from >>> below.

with Master Code:

Press and hold [8] until double beep, release and display shows SETUP

Enter 8-digit Master Code

Scrolling dots are displayed, checking for USB connection

If USB connection is detected, Audit is downloaded to the connected device, otherwise available Functions are displayed as a series of numbers

Press and release [7], then proceed from >>> below

>>>The most recent Open or Close event is displayed with Time, Date and User ID for Open Lock events. User ID displayed may be: 1 or 2 digits (depending on number of Users set) or _ for Close (as closing User is unknown.)

Use [0] to scroll back or [1] to scroll forward through the last 2000 events. Press [OK] when finished.

Only Open or Close events are displayed. Close events do not have a User ID associated with them.



DigiPro Software

Instructions

To revisit Set Up options (Function 8)

Following first time/initial set up: setting of time & date, resetting Master code, etc. – entering Function 8 results in the display of available functions as a series of numbers: 0 1 3 5 6 7 9, at which point the desired function may be selected. Setting number of Users, Dual Mode, Immediate Time Lock mode, and Code Length may only be performed at first time/initial set up from factory mode.

To program/change Time Delay and Open Window values (Manager or Master Code) (F9) with Manager Code:

Press and hold [9] until double beep, release and display shows DELAY and prompts for Manager Code
Enter Manager Code, then proceed from >>> below

with Master Code:

Press and hold [8] until double beep, release and display shows SETUP

Enter 8-digit Master Code

Available Functions are displayed as a series of numbers

Press and release [9], double beep, then proceed from >>> below

>>>If Time Delay has been set: Display shows currently programmed Delay value, press [OK] to confirm
OR

If Time Delay has not been set: Display shows DELAY 00 min

To change, enter new Time Delay value (2-digits, from 00 to 99 minutes)

Press [OK] to confirm new Time Delay.

Display shows WINDOW 01 min

To change, enter new Open Window value (2-digits, from 01 to 19 minutes)

Press [OK] to confirm new Open Window value

Time Delay counting mode (count-DOWN or count-UP) is displayed - press [P] to change mode, or [OK] to confirm mode as displayed, double beep and ✓ = OK.

NOTE: If the new Time Delay value is set lower than the previous value (ex.: 00 = no Time Delay), it is necessary to wait for the previously programmed Time Delay period to elapse before any changes will take effect

Press and hold [9] to reprogram Time Delay while lock is counting Open Window time

Display prompts for Code, enter Code

Display shows currently programmed Delay value

To change, enter new Time Delay value (2-digits, from 00 to 99 minutes), then [OK] to confirm new Time Delay value

Display shows currently programmed Open Window value

To change, enter new Open Window value (2-digits, from 01 to 19 minutes), then [OK] to confirm new Open Window value

Time Delay counting mode (count DOWN or count UP) is displayed - press [P] to change mode, or [OK] to confirm mode as displayed, double beep and ✓ = OK



DigiPro Software

Instructions

Factory Reset Procedure

The lock may be set back to factory mode at any time with the 8-digit Master Code and any other valid Code (Service, Manager or User)

Press and hold [8] until double beep, release and display shows SETUP

Enter 8-digit Master Code

Available Functions are displayed as a series of numbers

Press and release [5], double beep and display shows RESET

Press [OK] to confirm and display prompts to enter another valid Code (Service, Manager or User)

Double beep and ✓ = OK

OR Press [P] to exit.

Note: Factory Reset will not delete Time, Date or Audit, but will reset date format to default

Operation

To activate Immediate Time Lock (Manager Only or All Users - as designated in Set Up)

Press and hold [P] until double beep, release and display shows LOCKOUT

Enter time period in hours and minutes for the lock to be inaccessible, 72 hour maximum

Long beep if entered values are invalid, e.g., 83 hours, or 75 minutes

Press [P] to exit without activating, or [OK] to confirm

Display prompts for authorized Code entry

Time Lock expiration Time and Date is displayed

Press [OK] to confirm, double beep and ✓ = OK

OR

Press [P] to return to setting hours and minutes

[OK] Menu

Access this menu to:

display lockout time left in case of wrong try penalty,

display currently programmed time and date,

display/change currently active language,

display keypad and lock software version and Serial Numbers.

Press and hold [OK] until double beep, release to access the menu, then [P] to scroll through available windows. (see below)

OR

If wrong try lockout time is counting, long beep, display shows remaining lockout time and powers off

OR

Display shows currently programmed time and date, press [P] to proceed to next screen

Display shows currently active language on the top line and next available language on the bottom line

Press [OK] to scroll through available languages, or [P] to proceed to next screen

Press [P] when the desired language appears on the top line

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DigiPro Software

Instructions

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Press [P] to proceed to the next screen

Display shows Info screen: keypad S/N and software version on the top line and lock S/N and software versions on the bottom lines, press and hold [OK] to keep the screen active or [P] to power off

To open (Manager or User Code)

Enter a valid Manager or User Code. Double beep and display shows OPEN LOCK. Rotate the boltwork handle and open the door within 3 seconds. Do Not rotate the boltwork handle prematurely as that may result in a failure to Open

If Date and Time have not been set, ✘ is displayed and lock cannot be operated until Date and Time are set
If Time Lock is active, ✘ is displayed and lock cannot be opened yet

If Time Delay is programmed, Time Delay counting is displayed. After the first ten (10) seconds, display powers off. A quick press on any number (no beep) will display counting in progress. When Time Delay counting is completed, the programmed Open Window time counting is displayed along with a prompt for Code entry. A triple beep occurs every five (5) seconds. After the first thirty (30) seconds, display powers off, and acoustic signal continues. Enter a valid Code to Open the Lock before the Open Window counting elapses.

Press and release [P] at any time to cancel Time Delay or Open Window counting. Lock will not Open

To override Time Delay, enter an Override User Code first (User 9 or Users 31-34) and then a valid User Code. Lock will Open

If Dual Control option is active, display prompts for second User Code to be entered (during open window counting if Time Delay is active)

Important Notes:

- The factory Master Code must be changed as the Lock is put into service
- No simple Codes which are easy to guess (e.g. 1-2-3-4-5-6) when a Code is changed or a new Code is installed
- No personal data (e.g., birthdays) or other data that could be derived from having knowledge about the Code holder
- Code changing must be performed with the container door Open and boltwork extended
- Following Code changing, the lock must be tested several times with the container door Open and boltwork extended

