



DPT – EN1

Digital Programmable Timer Release 1

DPT – EN1

HARDWARE FEATURES

- 120 timers per day
- Each timer can be used in pulse or latch mode
- 7 day week clock
- Clock accurate to ± 1 minute / year (battery backed)
- Programmable via standard RS-232 serial port

HARDWARE CONNECTIONS

- 220V AC supply input terminals (110V Optional)
- Single pole double throw relay terminals
- RS-232 serial port connector (female)

HARDWARE INDICATORS

- Power LED
- Enabled LED
- Output ON LED

HARDWARE ORDERING OPTIONS

| Part Number | Description |
|-------------------------------------|---|
| <p>DPT - EN1 +C1.8 +C3.0</p> | Desktop Enclosure form factor, including all features as described above: Add: 1 x 1.8m OR 3.0m RS-232 Serial Cable (pin-pin) (omit, or select one option) |

DAPP – CONSOLE

SOFTWARE DESCRIPTION

The DPT - EN1 is supplied with DPT – CONSOLE, a Microsoft® Windows based graphical user interface software, which allow the easy creation of scheduled events that activates the DPT – Hardware's output relay.

With the Schedule Details option, DPT – CONSOLE allows you to create up to 120 individual events per day in a 7-day cycle. During this process, you will be able to define all relevant options, such as Pulse Time duration (in seconds), and a specific time (HOUR:MINUTE) at which the DPT – Hardware's output should be activated. A printable report allows documentation of the schedule details.

DPT – CONSOLE also allow the selection of the configured RS-232 port, and the automatic detection of the DPT – Hardware, if connected. A status report offers information on the connected hardware, and the unit's Day/Time setting. It also allows the synchronization of the Date/Time to make sure that the DPT – Hardware's onboard clock is synchronized with your PC's current BIOS date/time.

An "Activate / De-Activate" icon allow you to enable or disable the DPT – Hardware from the connected PC.

After downloading and testing, the DPT-EN1 can be disconnected from the PC, and installed on site.

DPT - EN1 DATASHEET 08/2002

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DPT - EN1 Digital Programmable Timer

Electrical Specifications

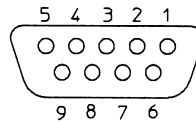
(Over the Operating Range)

| PARAMETER | CONDITION | VALUE |
|--------------------------|--------------------------|-------------------|
| Power supply voltage | | 220 v |
| Supply current | | < 40 mA |
| Relay Contact Current | 30VDC/250VAC | 10A |
| Battery Backup time | Power removed from board | ±5 days |
| Real Time Clock Accuracy | 0°C to +40°C | ±1 Min/Year |
| Serial Baud Rate | | 9600 |
| Replacement Fuse | | 0.5A Slow Blow |
| Replacement Battery | | 3.6v Rechargeable |

DPT – EN1 Serial Connections

The signals for the 9-pin RS-232 port on the DPT-EN1 are listed below.

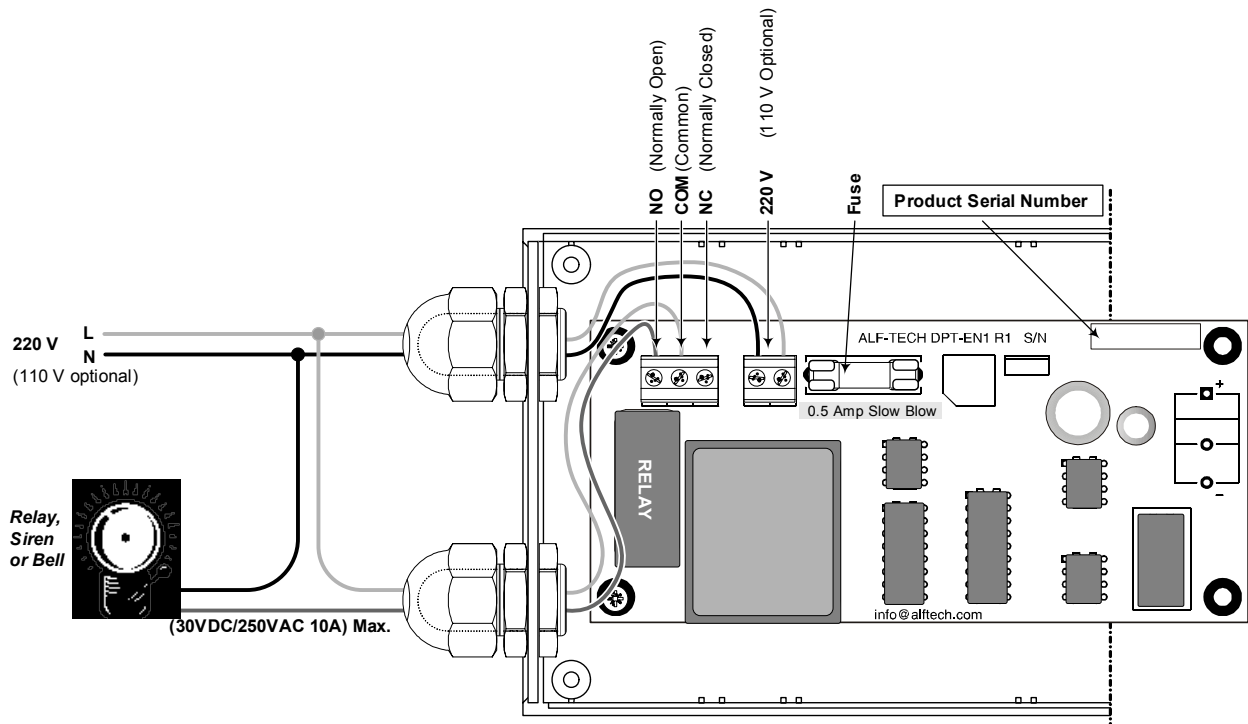
| Pin Number | Signal |
|------------|------------------------|
| 2 | Transmit Data (to PC) |
| 3 | Receive Data (from PC) |
| 5 | Signal Ground |



The following figure shows the pin out of the suggested RS-232 cable used between a PC and the DPT. The cable used is a pin-to-pin cable, thus each wire is connected to the same pin on each connector.

| Female connecting to PC | Male connecting to DPT |
|-------------------------|------------------------|
| RS-232 Pin # 2 | RS-232 Pin # 2 |
| RS-232 Pin # 3 | RS-232 Pin # 3 |
| RS-232 Pin # 5 | RS-232 Pin # 5 |

Example Power and Relay Connections



PHYSICAL LAYOUT AND DIMENSIONS

(All Dimensions in mm)

