

ALGE Timy2 is of a compact design, equipped with high-quality technology and unique for timing.

The exterior of the Timy2 can hardly be distinguished from that of the previous model Timy. However, the interior has been completely remodelled and updated to the latest technology: same housing, same keypad, improved display with backlight. The processor performance has been doubled and the memory has twice the capacity.

The major advantage of the Timy2 is, for certain, the low power consumption that triples the operating time with batteries, compared to the Timy. Thus working with a battery pack at 20°C and 3 printed lines per minute is possible for up to 47 hours. Low power consumption in spite of doubled processor performance in connection with high-capacity NiMH battery pack is responsible for this progress.

The new battery pack also offers advantages when operating at temperatures below freezing. Even at -20°C and 3 printed lines per minute the battery remains its high efficiency for up to 31 hours.

It is needless to say that we kept the ergonomic and most reliable design. Despite the handy dimensions the Timy2 has a large and easy to operate silicone keypad. In all weather conditions, even wearing gloves, using the keypad does not cause any problems whatsoever. The Timy2 PXE has an integrated printer that records the complete competition.

As a matter of course the Timy2 features the necessary interfaces for communicating with external devices. Integrated in the device is an interface for a scoreboard, an RS232 for data exchange with a computer, an RS485 for a network of timing devices as well as a future proof USB interface.

The memory of the Timy2 is generously dimensioned. It is capable of saving up to 30,000 times. All times recorded in the memory can at any time be displayed or send via RS232 or USB interface to a computer.



#### Display:

The Timy2 has a monochrome LCD graphic display with 128 x 64 pixel and backlight. With this, displaying up to 8 lines of text is possible. Different character sizes and also graphic symbols for easier operation can be displayed. The display has an extended temperature range for use in extreme weather conditions (e. g. winter sport).

#### Keypad:

In spite of the handy measurements, the Timy2 has a large and well operable silicon keypad with 26 buttons. Even with gloves the Timy2 can easily be operated.

#### Accuracy:

The Timy2 works on a time of day basis and records it with an accuracy of a 1/10,000- second. That means, that calculated net times of a precision of 1/1000- are exactly calculated. Highest accuracy at any temperature is guaranteed by a temperature compensated quartz.

#### Printer:

The Timy2 PXE has an integrated thermal printer. This silent and extremely fast printer allows an easy and straightforward paper change. The feed roller is fixed to the printer cover and therefore saves oneself the tedious threading of the paper.

#### Memory:

Memory of up to 30,000 times including ID-number and channel information. The software is on a FLASH-Memory which allows an upgrade of the software by internet from the PC.

#### Case:

Great attention has been placed to ergonomics and stability. The aim of the developers was to produce a timer that has all advantages of modern technology in a compact, handy but rugged case. This design has been chosen so that it is usable as a handheld and desktop device.

#### Connections:

Regarding the wide range of possible connections with external devices, the Timy2 offers unequalled opportunities in its class and size. E.g. it is possible to connect several devices by the RS 485 interface to work as a network.

#### Software:

There is a great number of programs for the Timy2. The Timy2 is able to cover the entire spectrum for time measurement starting from a hand timer up to the main timer at major events.

## Timy2 Software

- Backup:** timer to measure time of day (e.g. backup or reference timer for PC)
- Stopwatch:** universal timing program that is able to time more than one run (net time/total time)
- TrackTimer:** timing for events which have lanes (e.g. athletic, swimming)
- LapTimer:** timing program with split and sequential time
- PC-Timer:** professional timer (time of day) to work with a PC
- Training Light:** universal training software with intermediate times and one racer on course
- Training REF:** training software with intermediate times and more than one racer on course
- Speed:** speed measurement in km/h, m/s, or mph
- Commander:** terminal to control ALGE-display boards
- Terminal:** terminal for judges, e.g. ski jumping, figure skating, diving, synchronized swimming
- CycleStart:** start control, lap counting and backup timing for pursuit cycling
- Windspeed:** to measure the windspeed for athletics with a connected anemometer WS2
- Parallel-Diff:** timing program for parallel slalom
- Speed-Climbing:** timing program for speed climbing
- Timeout:** timing program with timeout function (e.g. show jumping)
- Swim Trainer:** training program for swimming
- Jumping:** training program for jumping exercises



### Timy2 XE

The Timy2 XE is a timer without printer. It has a temperature compensated quartz oscillator for time measurement with the highest precision and an extended temperature range for operational use down to  $-20^{\circ}\text{C}$  ( $-4^{\circ}\text{F}$ ).



### Timy2 PXE

The Timy2 PXE is a timer with integrated printer. It has a temperature compensated quartz oscillator for time measurement with the highest precision and an extended temperature range for operational use down to  $-20^{\circ}\text{C}$  ( $-4^{\circ}\text{F}$ ).



## Technical Data

- Processor:** Siemens C161 with 3,3 V technology
- Crystal Frequency:** 12.8 MHz with TCXO
- Time Resolution:** 1/10,000 s
- Program Memory:** FLASH Memory with 16 MBit
- Data Memory:** RAM with 4 MBit (about 30,000 times)
- Display:** monochrome LCD graphic display with backlight, 128 x 64 pixel, extended temperature range
- Keyboard:** silicone keyboard, 26 keys
- Connections:**
  - 1 x DIN-socket for photocell (7)
  - 1 x banana socket pair – start input (5)
  - 1 x banana socket pair - finish input (6)
  - 1 x banana socket pair – display board (4)
  - 1 x D-Sub 25-pin (3)
    - 9 timing channels
    - RS 232 (PC-connection)
    - display board
    - RS 485 (network)
    - power supply (8–24 VDC in/out)
  - 1 x USB (1)
  - 1 x power supply (8 - 24 VDC in) (2)

- Channel Extension:** per extension 8 channels, max. 99 channels
- Power Supply:**
  - Internal:** rechargeable NiMH-battery pack for Timy2 with printer, 2 Ah
  - 6 x AA-Alkaline 6 x 2 Ah (only for Timy 2 XE)
  - External:** Power Supply PS12A: 12 V battery, or 9-15 VDC data given at  $20^{\circ}\text{C}$  (68 F)
- Power Consumption:**
  - Alkaline: without printer about 100 hours
  - NM-Timy2: without printer about 60 hours
  - NC-Timy2: with printer about 47 hours
- Charging Duration:** about 14 hours
- Printer:** graphic thermal printer, max. 5 lines per sec.
- Temperature Range:**  $-20$  to  $60^{\circ}\text{C}$  ( $-4$  to  $140$  F)
- Measurements:**
  - Timy2 XE: 204 x 91 x 50 mm
  - Timy2 PXE: 307 x 91 x 65 mm
- Weight:**
  - Timy2 XE: 450 g (no battery)
  - Timy2 PXE: 650 g (no battery and paper)

