

# TIME Sync'ing e-Punch Equipment

## SPORTident BS8 SI-Master

Oktober 2012



Thank you for using our SPORTident BS8 SI-Master. This data sheet describes the features to be considered using the system parts.

SPORTident BS8 SI-Master is an extended SPORTident Control station. It works and can be configured as any other SPORTident-Station.

In addition two new service modes are implemented:

- TimeMaster
- ExtendedMaster



Also  
LABELED  
AS  
CLEAR

In operating mode "TimeMaster" the station transmits its clock time to any other SPORTident-Station inductive coupled to the SI-Master. So a set of SPORTident-Stations can be synchronised very quickly.

Also in "ExtendedMaster" mode the SI-Master transmits its clock time to any other SPORTident-Station. Additionally the SI-Master clears the backup memory of the slaved station and transmits its own active time to any other unit.

The different service modes are activated by using the Service/OFF-Card. There is the following order:

- |                   |        |                  |
|-------------------|--------|------------------|
| 1. Service        | SERVMO |                  |
| 2. TimeMaster     | TIMEMA | ← USE THIS MODE. |
| 3. ExtendedMaster | EXTMA  |                  |
| 4. Off            |        |                  |

LOOKS LIKE PURPLE FINGER STICK. →



← FIND SERVICE/OFF CARD AND FIND COUPLING STICK IN PRINTOUT STATION BOX. (SEE NEXT PAGE)

Each action by an ordinary SI-Card immediately activates station's base mode.

For the inductive coupling process a coupling stick should be used. When synchronizing the real time clock the slaved station will be switched automatically into service mode. An acoustic/optical feedback signal indicates the completion of the synchronisation process.

Then the slaved station switched back automatically in operating mode.

Nevertheless this process starts ones more when the station keeps on the time master.

Afterwards it is very important to check the real time clock in all synchronized stations by punching with a SI-Card and read out the data records.

Besides this punch guarantees that all stations will be switched into the active mode.

DO THIS FOR ALL CONTROLS, PRINTOUT STATION, START, FINISH, CHECK.



COUPLING  
STICK.  
(BLACK  
ROD).

## Resolution

The station's real time clock system is calibrated and temperature compensated (starting with firmware V5.53). This offers higher accuracy also at very high and very low temperatures. The internal time resolution is 1/256 s, approximately 4 ms.

## Specifications

- Internal power supply: 1 x Lithium ½ AA cell, no rechargeable
- Battery capacity: 1000 mAh
- Durability: 3 – 5 years
- Battery exchange: by SPORTident GmbH and authorized SPORTident dealers
- Operating range: -20°C - +50°C
- International protection class: IP 64 (DIN EN 60529)
  - Protection against penetration of dust
  - Protection against splashed water from all directions
- Dimensions: 101mm x 51mm x 19mm
- Weight: 62 g
- Accuracy at normal temperature: less than +/- 20 seconds a month
- Switch on time: < 1 second (standard)
- Backup memory: maximum number of punches: 21802  
maximum number of SI-Cards data records: 1022

Good luck with SPORTident!