# theXtra.series

# **Xtra.Driver Information Display**

The Xtra.Driver Information Display is a unique steering wheel mountable display, designed to be used at rental kart centres.

Apart from showing real time racing data, the system can also display race flags, (safety) instructions, active speed limits and penalties during the race. Commercial banners or personalised welcome messages can be shown to drivers in the pits while waiting for the race to start. Robust housing protects internal electronics from heavy vibrations and other harsh conditions

Large visible characters provide excellent readability

Powerful white backlight

ensures perfect visibility in

cases of low ambient light

Button functions can be locked for the drivers

Text line for banners, (safety) instructions, or (welcome) messages





Information is displayed in large visible characters, providing excellent readability to the driver. A white backlight ensures perfect visibility even in cases of low ambient light. The backlight can also come on automatically at the moment new information is available on the display.

The track operator can fully configure the display and decide which items on the display must be shown or not.

(Real time) Race data area



## Remote Kart & Track Control Xtra.Robust Xtra.Track Safety



### **Technical specifications**



Dimensions	LxWxT = 125 x 84 x 37 mm
Display type	LCD
Viewing area	85 x 45 mm
Backlight	Yes, strong white leds
Backlight intensity	Controllable
Batteries	Integrated High Capacity rechargeable
	battery pack
Race data items	Position
	• Laptime
	Best laptime
	Gap to other karts
	Elapsed race time
	• Elapsed laps
	• Speed ( km/h or MPH )
	• RPM / Kart number
Pre-defined race flags and instructions	• RED FLAG, YELLOW FLAG, BLUE FLAG,
	GREEN FLAG, BLACK FLAG, FINISH and START
	• PENALTY
	• GO TO PITS
	RACE STARTED
	• STOP
	• FUEL
	• IN
	• END
General purpose text area	12 characters display. Strings up to
	255 characters can be shown.
Battery level indicator	Available
Battery life indication after full charge	30 days continuously on
	(backlight off, no sensors attached)
Data source inputs	All relevant devices equipped with our kart
	network port.
	Speed sensor
	Lap sensor
	RPM sensor
Displayed items	All race data items can be shown or hidden by
	easy to use configuration.
Software upgradeable	Yes
Power save	10 999 sec, off
Weight	Approx. 400 grams

The unique Xtra.Driver Information Display from the Haardt Electronic Engineering BV, can provide drivers at each moment of a race event with relevant information, for example :

#### Phase 1 : While waiting in the kart for the race to start:

- Commercial banners
- (Personalised) welcome messages
- Safety instructions

#### Phase 2 : Start of the race

Phase 3 :

- Message indicating start of the race
- - **During the race**
  - Real time race information
  - Race flags
  - Penalties
  - Active speed limits

#### Phase 4 : Race time is expired, but karts are still driving on the track

• Race finish, or G0 T0 PITS message • Driver position

### Phase 5 :

- When the kart enters the pits
- Instructions to pick up printed laptimes at the bar. • 'Step out of the kart' safety instructions
- 'Thanks for visiting your kart centre' message



de Haardt



operate the track.

ating procedure must still be adequate to safely

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Lap sensor

Yes

Yes

Yes

Yes

Input Source

Speed sensor

Yes

**Input Source** 

Kart network

\*1

\*4

\*1

Yes

**3** An estimate of the speed is calculated from the measured RPM.

network port forwarded to the Xtra.Driver Information Display.

Xtra.Driver Information Display.

Xtra.Shutdown transponder.

ltem

Gap Speed

RPM Elapsed race time

Messages

Laptime

Position Elapsed laps

Best laptime

All products are designed as supplement to make karting safer, but cannot replace safe track procedures. If equipment fails, the normal Specifications are subject to change without notice.

**ELECTRONIC ENGINEERING**