

aquatics

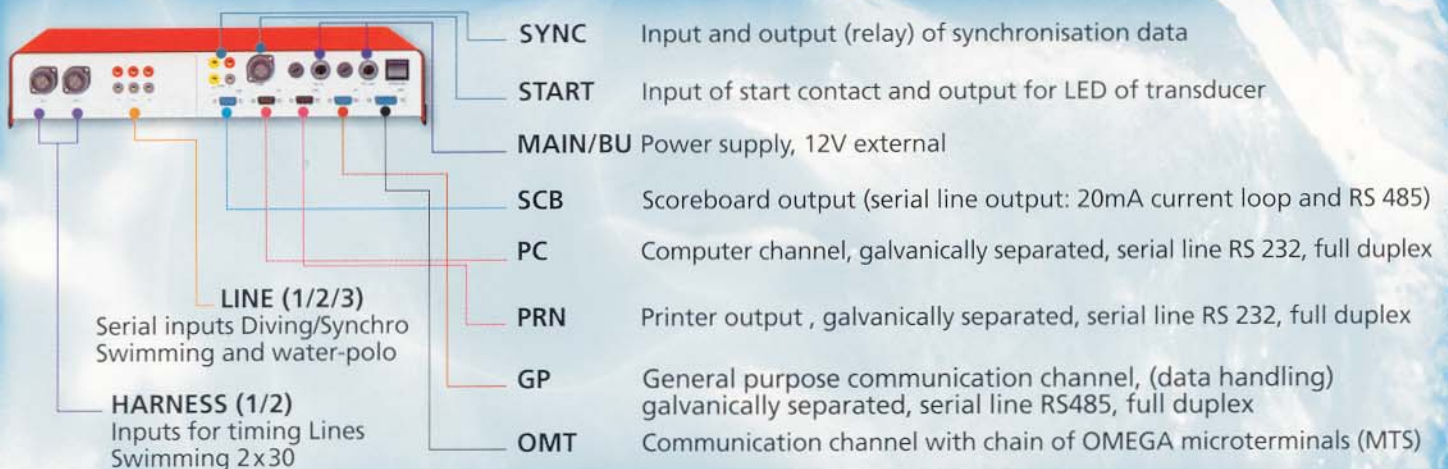
Ω
OMEGA
ELECTRONICS

Timing device **ARES 21** SPORTS TIMING

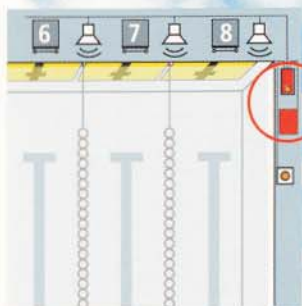
If you want the best, buy an Omega Electronics product.

The ARES21 has already been installed in hundreds of swimming pools world-wide.

ARES is certainly the most powerful - and flexible - sports timing device currently available. ARES-SW has been specifically configured to meet the requirements of aquatics disciplines, comprising swimming, synchronised swimming, diving, synchronised diving and water polo. With the operational (sports) software installed in the associated PC, rule changes can be rapidly accommodated and customer systems updated.



TECHNICAL CHARACTERISTICS



Power Supply	External battery 10.8-14.4 V (NiCd or lead)
Temperature	Working 0° - 45°C
Power Consumption (typical)	ARES interface 400mA Swim Harness 200mA/harness MTO console 100mA/console
Timing System	Capacity 23:59:59.99, repetitive
Resolution	1, 1/10, 1/100, 1/1000 th sec
Relative Humidity	With no condensation 20% - 80%
Time Base	Frequency 16 MHz Stability (0°-45°C) ±1ppm Ageing renewable ± 5ppm
Dimensions	410 x 285 x 80mm
Weight	2,8 kg



S2/E

GENERAL CONCEPT OF ARES 21

ARES21 is an intelligent input/output interface with an on board buffer memory. Timing data is recorded for each input port and identified with a unique alphanumeric code. Data from the **ARES** interface is transmitted to the associated computer (desktop or notebook) via a standard serial line. All data processing then takes place in the computer.

The quantity of data stored (i.e. number of races or competitions) is only limited by the size of the hard drive, enabling results from previous races to be recalled for examination on the computer screen, for re-transmission to the scoreboard or re-printed.

The **ARES** concept is protected by a number of International Patents and the **ARES** interface is fully CE compliant.

APPLICATIONS

Although very powerful, **ARES** is easy to use thanks to both the extensive "on board" help file and the full colour control screen with an interactive graphical representation of all key functions.

As such **ARES** is suitable for use at all levels of competition, through from school events right up to the World Championships and Olympic Games - where the power and versatility of the system have already been proven! Complying with FINA rules!

PRINTED RESULTS

Printed data is actually available in two formats. Firstly, results are available (appropriate to that actual discipline) for each event, in an A4 format. Secondly a "protocol printer" may be connected directly to the **ARES** interface to print - in real time - all data recorded by **ARES**, such as lane number and time for swimming or judge number and score for diving.

OPTIONS



3330-621 **ARES**
Single power supply 230 V



9051-639 **ARES**
online printer

ARES DATABASE

The **ARES** concept enables start lists and event data including title and records to be loaded into the main **ARES** database. This enables a full result to be generated by **ARES**, including competitor names - with this data available for transmission to the main results printer or to a full matrix scoreboard.

Protocol information can be provided to designers of external results systems to enable start lists to be downloaded from the results system into the **ARES** database and for timing data to be uploaded from **ARES** into the results system.

SCOREBOARD COMPATIBILITY

A variety of Omega Electronics scoreboards may be driven directly by the **ARES** interface. These include single or multi-line numeric boards plus full matrix devices.

As well as transmitting pure timing data, **ARES** is able to transmit competitor names and record information if the appropriate details has been loaded into the **ARES** database.

SECURITY

The **ARES** interface is operated from a twelve volt power pack - ensuring correct operation even in the event of a complete failure of the mains power supply. The use of a notebook computer and battery operated A4 printer mean that the whole system may be operated from the pool side, or merely to enable the competition to continue until mains power is restored.

Even when connected to a desktop computer, **ARES** retains the appropriate timing data in its internal buffer memory - ready for processing as soon as the PC is operational once more.

Represented by:

The information contained within this document may be modified without warning. Omega Electronics cannot be held responsible for errors within this document nor for any subsequent nor consequential damages (including loss of profit) arising from its provision, nor performance or use of products described herein, which will be covered by another guarantee, contract or other legal document.

OMEGA ELECTRONICS SA • P.O. BOX 4161 • RUE DES PRÉS 149 • CH-2500 BIENNE 4, SWITZERLAND
PHONE ++41 32 3433 711 • FAX ++41 32 3433 808 • e-mail: info@omega-electronics.ch • Web: http://www.omega-electronics.ch

A COMPANY OF THE **SWATCH GROUP**

