

## RADIO TIMING® 93




*The RT93 is a quartz generator synchronized by an external time source, emitting a secured time code with high accuracy to clocks, master clocks or hardware.*

### Security

- Quartz time base 3.6864 MHz. Accuracy:  $\pm 0.1$  sec/24 h between 20° and 30°C in case of loss of synchronization
- Power reserve of time base during 2 days by an incorporated battery in the absence of mains
- Filters protect against surges and industrial interferences

### Specifications

Power supply possible	230 VAC 10 mA – 3 points screw terminal block or 115 VAC – 3 points screw terminal block
Certifications	CE, EN 60950, EN 55022, EN 55024, ROHS
Maximal Consumption	5 VA
IP	54
MTBF	120 000 h
MTTR	10 min
Weight	0,8 kg
Dimensions	180 x 130 x 100mm (LxHxD)
Operating temperature	-10° to 50°C
Storage temperature	-20° to 70°C
Electrical equipment classification	Classe 2 

### Key features

- IP 54 waterproof case
- EMC protection filter, against voltage surges and industrial interferences
- 5 LED indicators: mains, synchronization, time base, AFNOR code output, ASCII code output

### Synchronization inputs

#### Standalone with quartz sync by:

- DCF 77 kHz (Europe)
- ALS 162kHz
- AFNOR NFS 87-500 (IRIG B)
- ASCII RS 422-485
- ASCII RS 232C

#### Synchronization outputs

- AFNOR NFS 87-500 (IRIG B) 1000Hz. Accuracy: 20µs
- ASCII RS 232C
- ASCII RS 422-485
- ASCII RS 232 sur SUB D

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ITEM CODE

4628 /  /  /

VERSION

DCF 77kHz Radiosynchronization (antenna not included) <input type="checkbox"/>	D	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
AFNOR NFS87-500 (IRIG B) synchronization input <input type="checkbox"/>	8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ASCII RS 232C synchronization input <input type="checkbox"/>	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ASCII RS 422-485 synchronization input <input type="checkbox"/>	R	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ALS 162kHz Radiosynchronization (antenna not included) <input type="checkbox"/>	S	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

POWER SUPPLY

Standard: 230VAC – 50/60Hz <input type="checkbox"/>	0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
115VAC – 50/60Hz <input type="checkbox"/>	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

OPTION SORTIE AFNOR

Without <input type="checkbox"/>	0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
AFNOR NFS 87-500 (IRIG B) <input type="checkbox"/>	8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

OPTION SORTIE ASCII

Without <input type="checkbox"/>	0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<sup>(1)</sup> ASCII RS 232C <input type="checkbox"/>	A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Or <sup>(1)</sup> ASCII RS 422-485 <input type="checkbox"/>	R	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Or ASCII RS232 C on SUB D <input type="checkbox"/>	C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tropicalized <input type="checkbox"/>	U	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<sup>(1)</sup> The ASCII RS232C or RS422 outputs can be combined with the AFNOR NFS 87-500 (IRIG B) output. They are transmitted every second in uni or bi-directional mode. Speed, Stop bit, Format and Parity can be set by internal switch

ITEM CODE

ANTENNA

DCF Antenna with 4m cable <input type="checkbox"/>	3D6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DCF Antenna with 7m cable <input type="checkbox"/>	3D7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ALS Antenna with 5m cable <input type="checkbox"/>	907025	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>