



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

<b>Power supply</b>	230 VAC 10 mA – 3 points screw terminal block Or 115 VAC – 3 points screw terminal block or 127 VAC – 3 points screw terminal block
<b>Certifications</b>	CE, EN 60950, EN 55022, EN 55024, ROHS
<b>Maximum consumption</b>	5 VA
<b>IP</b>	54
<b>MTBF</b>	120 000 h
<b>MTTR</b>	10 min
<b>Weight</b>	0.8 kg
<b>Dimension</b>	180x130x100 mm (LxHxD)
<b>Operating temperature</b>	- 20 to 70°C
<b>Storage temperature</b>	- 20 to 80°C
<b>Electrical equipment classification</b>	Class 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 77kHz (Europe)
  - 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 on SUB D

ITEM CODE					
4628	/	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		↑	↑	↑	
VERSION					
DCF 77kHz Radiosynchronization (antenna not included)	<input type="checkbox"/>	D			
AFNOR NFS87-500 (IRIG B) synchronization input	<input type="checkbox"/>	8			
ASCII RS 232C synchronization input	<input type="checkbox"/>	A			
ASCII RS 422-485 synchronization input	<input type="checkbox"/>	R			
POWER SUPPLY					
Standard: 230VAC – 50/60Hz	<input type="checkbox"/>	0			
115VAC – 50/60Hz	<input type="checkbox"/>	1			
127 VAC – 50/60Hz	<input type="checkbox"/>	3			
AFNOR OUTPUT OPTION					
Without output option		0			
AFNOR NFS 87-500 (IRIG B)	<input type="checkbox"/>	8			
ASCII OUTPUT OPTION					
Without output option		0			
(1)ASCII RS 232C	<input type="checkbox"/>	A			
Or (1)ASCII RS 422-485	<input type="checkbox"/>	R			
Or ASCII RS232C on SUB D	<input type="checkbox"/>	C			
Tropicalization	<input type="checkbox"/>	U			

(1) 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.

ANTENNA		ITEM CODE	
DCF Antenna with 4m cable	<input type="checkbox"/>	3D6	
DCF Antenna with 7m cable	<input type="checkbox"/>	3D7	