

RADIO TIMING® GTC RACK 19" 1U



Master clock with built-in programmer unit and impulse output (either 1A/24V parallel minute impulse or half- minute serial reversed pulse).

**Automatic and programmable Daylight Saving Time.
Automatic time setting when switched on.**

Internal time base

Microprocessor quartz time base, **Radiosynchronisable**: 3.6864 MHz
Accuracy : +/- 0.1 sec/24 hours between 20°C to + 30°C.

Security

- In case of power failure, back up of Time keeping and Program for up to 10 years ensured by lithium battery.
- Memorization of impulses and rapid synchronization of slave clocks when power is on.
- **Protection filter against over voltage and industrial interferences.**

Specifications

Power supply	230 VAC/50-60Hz 115 VAC/50-60Hz
Certifications	CE, EN 60950 (security), EN 55022 (EMC transmission), EN 55024 (EMC immunity)
Maximale Consumption	45VA
IP	31
MTBF	100 000 h
MTRR	Mother board: 10 min. Display board: 5 min. Output board : 5 min.
Weight	2,6 Kg max
Dimension	L482 X H 266 X D44mm
Display	LCD graphics 4 lines 20 backlit characters blue
Operating temperature	-10° to 50°C
Storage temperature	-20° to 70°C

Key features

- Display of date and time on LCD screen.
- Compact Product .
- **Easy programming via front panel keyboard.**
- back up of Time keeping and Program for up to 10 years ensured by lithium battery.
- Program retaining ensured by flash memory storage.

Synchronization inputs

- DCF (Europe).
- GPS without external power supply up to 100m on a single pair tel cable (via a GPS/DCF converter).
- AFNOR NFS87500 (IRIG B).
- ASCII RS232.
- ASCII RS422/485.

Synchronization outputs

- Default parallel reversed pulsed minute 24V/1A or ½ serial minute. (can drive up to 140 units of GORGY TIMING clocks.)
- AFNOR NFS 87500/IRIG B 1000Hz Time code output. Millisecond accuracy. (can drive up to 250 units of GORGY TIMING clocks.)
- ASCII RS422/485.
- ASCII RS232.

Programmeur units

Built-in **weekly programmer** can also be used for **annual events schedules** such as: national holidays and school vacations. It operates on *Timing* or *ON/OFF* mode.

- **Programming by keyboard on front face.**
- **3 independent relays, voltage-free output**, breaking capacity 250 volts 10 A.
- **1 pre-wired 230-volt output relay**, 10A breaking capacity.
- **Option: 2 additional dry-contact relays.**



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RACK 19" 1U

		ITEM CODE															
		4550	/	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
				↑	↑	↑	↑	↑	↑	↑	↑						
VERSION SYNCHRONIZATION INPUT																	
<input type="checkbox"/>	Standalone	2															
<input type="checkbox"/>	AFNOR Receiver - UTC	8															
<input type="checkbox"/>	AFNOR Receiver - Local	9															
<input type="checkbox"/>	DCF radiosynchronization	D															
<input type="checkbox"/>	GPS synchronization for CET time zone (Central European Time: France, Germany...)	G															
<input type="checkbox"/>	GPS synchronization for other time zones*	J															
<input type="checkbox"/>	ASCII RS 232 synchronization (GT)	A															
<input type="checkbox"/>	ASCII 422/485 synchronization (GT)	R															
<input type="checkbox"/>	ASCII RS 232 synchronization (horoquartz HQ)	H															
<input type="checkbox"/>	ASCII 422/485 synchronization (horoquartz HQ)	Q															
<input type="checkbox"/>	NTP Ethernet 10/100 base T synchronization	N															
* please specify location of project on Purchase Order																	
POWER SUPPLY																	
<input type="checkbox"/>	230 VAC/ 50-60Hz	0															
<input type="checkbox"/>	115 VAC/50-60Hz	1															
IMPULSION OUTPUTS																	
<input type="checkbox"/>	Parallel reversed pulse minute 24V/1A	3															
<input type="checkbox"/>	Or 1/2 minute reversed serial minute 48V output	5															
AFNOR OUTPUT EXTENSIONS																	
<input type="checkbox"/>	Without AFNOR output	0															
<input type="checkbox"/>	With AFNOR NFS 87500 (IRIG B) output	8															
ASCII OUTPUT EXTENSIONS																	
<input type="checkbox"/>	Without ASCII output	0															
<input type="checkbox"/>	2 ASCII RS 232 outputs(GT)	A															
<input type="checkbox"/>	1 ASCII RS 485 output (GT)	R															
<input type="checkbox"/>	1 ASCII RS 232 HQ output (horoquartz HQ)	H															
<input type="checkbox"/>	1 ASCII RS 422/485 HQ output (horoquartz HQ)	Q															
OPTION																	
<input type="checkbox"/>	2 additional dry contact relays	R															
<input type="checkbox"/>	Tropicalization of electronic board	U															

OPTION: CONFIGURATION

Programming of relays and synchronization outputs.

Ability to configure and program the equipment in the factory according to the customer information. In that case, add an extra line in the order.