



RADIO TIMING® GTC

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	20
MTBF	100 000 h
MTRR	Mother board: 10 min. Display board: 5 min. Output board : 5 min.
Weight	2 Kg
Dimension	L373 X H 206 X D82.5 mm DIN rail mountable
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.**



RADIO TIMING® GTC

		ITEM CODE									
		4580	<input type="checkbox"/>	<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											
Standalone	<input type="checkbox"/>	2									
AFNOR Receiver - UTC	<input type="checkbox"/>	8									
AFNOR Receiver - Local	<input type="checkbox"/>	9									
DCF radiosynchronization	<input type="checkbox"/>	D									
GPS synchronization for CET time zone (Central European Time: France, Germany...)	<input type="checkbox"/>	G									
GPS synchronization for other time zones*	<input type="checkbox"/>	J									
ASCII RS 232 synchronization (GT)	<input type="checkbox"/>	A									
ASCII 422/485 synchronization (GT)	<input type="checkbox"/>	R									
ASCII RS 232 synchronization (horoquartz HQ)	<input type="checkbox"/>	H									
ASCII 422/485 synchronization (horoquartz HQ)	<input type="checkbox"/>	Q									
* please specify location of project on Purchase Order											
POWER SUPPLY											
230 VAC/ 50-60Hz	<input type="checkbox"/>	0									
115 VAC/50-60Hz	<input type="checkbox"/>	1									
IMPULSION OUTPUTS											
Parallel reversed pulse minute 24V/1A	<input type="checkbox"/>	3									
Or 1/2 minute reversed serial minute 48V output	<input type="checkbox"/>	5									
AFNOR OUTPUT EXTENSIONS											
Without AFNOR output	<input type="checkbox"/>	0									
With AFNOR NFS 87500 (IRIG B) output	<input type="checkbox"/>	8									
ASCII OUTPUT EXTENSIONS											
Without ASCII output	<input type="checkbox"/>	0									
2 ASCII RS 232 outputs(GT)	<input type="checkbox"/>	A									
1 ASCII RS 485 output (GT)	<input type="checkbox"/>	R									
1 ASCII RS 232 HQ output (horoquartz HQ)	<input type="checkbox"/>	H									
1 ASCII RS 422/485 HQ output (horoquartz HQ)	<input type="checkbox"/>	Q									
OPTION											
2 additional dry contact relays	<input type="checkbox"/>	R									
Tropicalization of electronic board	<input type="checkbox"/>	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.