

## RADIO TIMING® GTC CASING



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

<b>Power supply</b>	230 VAC – 50/60Hz – 3 points screw terminal block 115 VAC – 50/60Hz – 3 points screw terminal block
<b>Certifications</b>	CE, EN 60950 (safety), EN 55022 (EMC transmission), EN 55024 (EMC immunity)
<b>Maximum Consumption</b>	45 VA
<b>IP</b>	20
<b>MTBF</b>	100 000 h
<b>MTRR</b>	Mother board: 10 min Display board: 5 min Output board: 5 min
<b>Weight</b>	2 kg
<b>Dimension</b>	L373 X H 206 X D82.5 mm DIN rail mountable
<b>Display</b>	LCD graphics 4 lines 20 backlit characters blue
<b>Operating temperature</b>	-10 to 50°C
<b>Storage temperature</b>	-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 77KHz (Europe)
- GPS without external power supply up to 100m on a single pair tel cable (via a GPS/DCF converter)
- AFNOR NFS 87-500 (IRIG B)
- ASCII RS232
- ASCII RS422/485

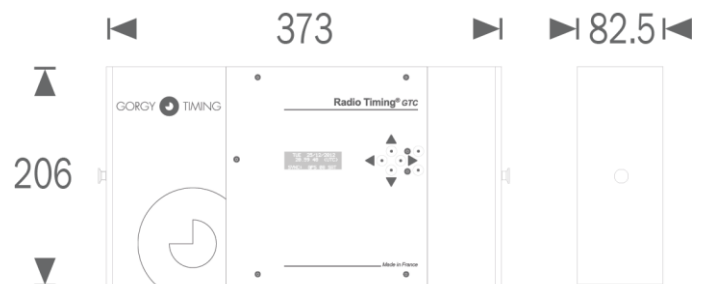
### Synchronization outputs

- Default parallel reversed pulsed minute 24V/1A or ½ serial minute. (can drive up to 140 units of GORGY TIMING clocks.)
- AFNOR NFS 87-500/IRIG B 1000Hz Time code output. Millisecond accuracy. (can drive up to 250 units of GORGY TIMING clocks.)
- ASCII RS422/485
- ASCII RS232

### Programmer

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 CASING

		ITEM CODE							
		4580	/	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>VERSION SYNCHRONIZATION INPUT</b>				↑	↑	↑	↑	↑	↑
Standalone	<input type="checkbox"/>	2							
AFNOR NFS 87-500 / IRIG B Receiver – 2 points screw terminal block	<input type="checkbox"/>	8							
(1)DCF Radiosynchronization (antenna not included) – 2 points screw terminal block	<input type="checkbox"/>	D							
(1)(2)GPS synchronization without time offset (antenna not included) – 2 points screw terminal block	<input type="checkbox"/>	G							
(1)(2)GPS synchronization with time offset (antenna not included) – 2 points screw terminal block	<input type="checkbox"/>	J							
ASCII RS 232 (GT) synchronization – 5 points screw terminal block	<input type="checkbox"/>	A							
ASCII RS 485 (GT) Synchronization – 5 points screw terminal block	<input type="checkbox"/>	R							
ASCII RS 232 (horoquartz HQ) Synchronization – 5 points screw terminal block	<input type="checkbox"/>	H							
ASCII RS 422/485 (horoquartz HQ) Synchronization – 5 points screw terminal block	<input type="checkbox"/>	Q							
(1) For the antennas please refer to the antenna table below (2) offset from france. For the offset, specify the city where the device will be located. (See table)									
<b>POWER SUPPLY</b>									
230 VAC – 50/60Hz	<input type="checkbox"/>	0							
115 VAC – 50/60Hz	<input type="checkbox"/>	1							
<b>PULSE OUTPUTS</b>									
Parallel reversed pulse minute 24V/1A – 2 points screw terminal block	<input type="checkbox"/>	3							
Or 1/2 minute reversed serial minute 48V output – 2 points screw terminal block	<input type="checkbox"/>	5							
<b>AFNOR OUTPUT EXTENSIONS</b>									
Without AFNOR NFS 87-500 / IRIG B output	<input type="checkbox"/>	0							
With AFNOR NFS 87-500 / IRIG B output – 2 points screw terminal block	<input type="checkbox"/>	8							
<b>ASCII OUTPUT EXTENSIONS</b>									
Without ASCII output	<input type="checkbox"/>	0							
2 ASCII RS 232 (GT) outputs – 5 points screw terminal block	<input type="checkbox"/>	A							
1 ASCII RS 485 (GT) output – 5 points screw terminal block	<input type="checkbox"/>	R							
1 ASCII RS 232 (horoquartz HQ) output – 5 points screw terminal block	<input type="checkbox"/>	H							
1 ASCII RS 422/485 (horoquartz HQ) output – 5 points screw terminal block	<input type="checkbox"/>	Q							
<b>OPTION</b>									
2 additional dry contact relays – 4 points screw terminal block	<input type="checkbox"/>							R	
Tropicalization	<input type="checkbox"/>							U	

### OPTION: CONFIGURATION

Programming of relays and synchronization outputs.

Net Price HT : 124 euros

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.


		ITEM CODE	
<b>ANTENNA</b>			
DCF Antenna with 4m cable	<input type="checkbox"/>	3D6	
DCF Antenna with 7m cable	<input type="checkbox"/>	3D7	
GPS Antenna with 10m cable	<input type="checkbox"/>	3G10-V4	

# RADIO TIMING® GTC



MASTER CLOCKS / TIME SERVERS / SOFTWARES / GNSS ELEMENTS

Use in local French time (same time zone)			
( only for France, Spain, Italy, Germany, Netherlands, Switzerland, Norway, Sweden, Belgium, Luxembourg, Monaco, Austria, Bulgaria, Poland, Czech Republic)			
Synchro. source	Description	Time output	Code to select (4580/ ? ) (4550/ ? )
GPS	3G antenna in French local time	Output in local French time only	G
AFNOR/IRIG-B (local)	The AFNOR signal must be in local French time	Output in local French time only	8
DCF	Standard	Output in local French time only	D
ASCII local	The ASCII signal must be in French local time. ASCII GT or Horoquartz protocol only	Output in local French time only	A: RS232 R: RS485/RS422
Standalone	Standard	Output in local French time only	2

Use in other countries or in UTC time			
Synchro. source	Description	Heure des sorties	Code to select (4580/ ? ) (4550/ ? )
GPS local	Factory-configured 3G1 antenna	Outputs in local time only <b>Specify the country in BE remarks</b>	J
GPS UTC	Factory-configured 3G1 antenna	Outputs in UTC time only. <b>Specify "output in UTC" in BE remarks</b>	J
AFNOR/IRIG-B (local)	The AFNOR signal must be in local time	Outputs in local time only	8
AFNOR/IRIG-B (UTC)	The AFNOR signal must be in UTC	Outputs in UTC only	8
DCF	<b>Not available</b>	<b>Not available</b>	<b>Not available</b>
ASCII (local)	The ASCII signal must be in local time. ASCII GT or Horoquartz protocol only.	Outputs in local time only	A: RS232 R: RS485/RS422
ASCII (UTC)	The ASCII signal must be in UTC. ASCII GT or Horoquartz protocol only.	Outputs in UTC only	A: RS232 R: RS485/RS422
Standalone	<b>Standard</b>  <i>Avoid using this configuration in countries with a time change policy.</i>	Outputs in local time only  <b>No DST management (summer/winter time change not managed by the master clock)</b>	2