



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

Power supply possible	230 VAC – 50/60Hz – 3 points screw terminal block 115 VAC – 50/60Hz – 3 points screw terminal block
Certifications	CE, EN 60950 (safety), EN 55022 (EMC transmission), EN 55024 (EMC immunity)
Maximal Consumption	45 VA
IP	20
MTBF	100 000 h
MTTR	Mother board: 10 min Display board: 5 min Output board: 5 min
Weight	2 kg
Dimensions	373 x 206 x 82,5 mm (LxHxD) 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 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 RS 232
- ASCII RS 422/485

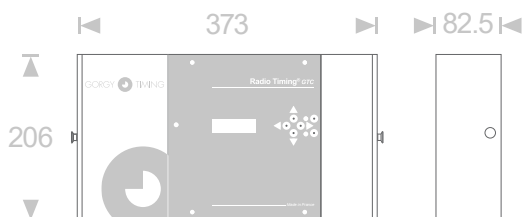
Synchronization outputs

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



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		ITEM CODE					
		4580					
			↑	↑	↑	↑	↑
VERSION SYNCHRONIZATION INPUT							
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					
POWER SUPPLY							
230 VAC – 50/60Hz <input type="checkbox"/>		0					
115 VAC – 50/60Hz <input type="checkbox"/>		1					
PULSE OUTPUTS							
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					
AFNOR OUTPUT EXTENSIONS							
Without <input type="checkbox"/>		0					
With AFNOR NFS 87-500 / IRIG B output – 2 points screw terminal block <input type="checkbox"/>		8					
ASCII OUTPUT EXTENSIONS							
Without <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					
OPTION							
Without <input type="checkbox"/>		0					
2 additional dry contact relays – 4 points screw terminal block <input type="checkbox"/>		R					
OPTION							
Tropicalization <input type="checkbox"/>		U					

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)

OPTION: CONFIGURATION

Programming of relays and synchronization outputs.

Net Price exc. tax: 124 €

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.

ANTENNA		ITEM CODE	PRICE € exc. tax
DCF Antenna with 4m cable <input type="checkbox"/>		3D6	102
DCF Antenna with 7m cable <input type="checkbox"/>		3D7	116
GPS Antenna with 10m cable frozen configuration: local time Europe <input type="checkbox"/>		3G10-V4	279
GPS Antenna with 10m cable DSF configuration (with configurable time offset) <input type="checkbox"/>		3G10-V3	279