

# Technical features

## Analogue clocks

**Profil TGV  
930/940**

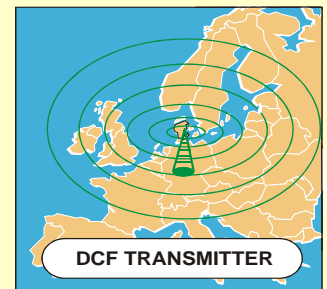
### Description :

- ▶ Indoor clock with analogue display.
- ▶ Hour – minute display.
- ▶ The clocks have been designed in partnership with the design office of the French railways.
- ▶ Models : independent quartz, radio synchronised DCF, 24V, 24V minute receiver and IRIG-B/AFNOR coded time receiver.



### Technical features :

- ▶ ABS casing.
- ▶ Protective glass made with poly methacrylate.
- ▶ Clock colours :
  - black casing RAL9005
  - yellow hands and notches RAL1016
  - grey dial RAL7015



	Movement	Power supply	Operating temperature	Protection Index	Readability	Weight
Profil TGV 930	Quartz	Lithium battery 1,5V LR6	- 0°C à +50°C	IP401	20m	0,7kg
	Radio DCF	Lithium battery 1,5V LR6	- 5°C à +55°C	IP401	20m	0,7kg
	Minute receiver		-10°C à +50°C	IP401	20m	0,9kg
	IRIG-B/AFNOR receiver	230 Volt 50Hz ±10%	-10°C à +50°C	IP401	20m	1,3kg
Profil TGV 940	Quartz	Lithium battery 1,5V LR6	- 0°C à +50°C	IP401	35m	1,9kg
	Radio DCF	Lithium battery 1,5V LR6	- 5°C à +55°C	IP401	35m	1,9kg
	Minute receiver		-10°C à +50°C	IP401	35m	2,1kg
	IRIG-B/AFNOR receiver	230 Volt 50Hz ±10%	-10°C à +50°C	IP401	35m	2,5kg



**Back side of Profil TGV 930/940**

### References

	TGV 930	TGV 940
▶ Independent quartz on battery	981 142	983 142
▶ Radio synchronised DCF	981 342	983 342
▶ IRIG-B/AFNOR coded time receiver	981 942	983 942
▶ 24V minute receiver	981 542	983 542



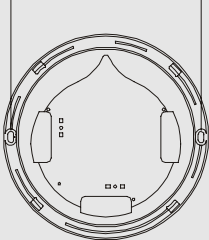
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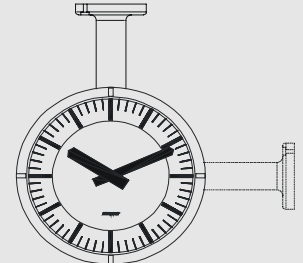
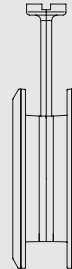
Single sided wall support for IRIG-B/  
AFNOR clocks

Mounting screws



When the support is fixed on the wall, turn the clock a quarter turn in the clockwise so that the clock is in the correct position.

Double sided bracket mounting



### Movements and synchronisation :

#### Quartz movement

- ▶ The clock is totally independent, the time information comes from his own time basis.

#### Radio synchronised DCF movement

- ▶ The clock is independent. The time information comes from its own time basis which is corrected, in case of drift, by comparing it to the DCF transmitter signal.
- ▶ The radio synchronisation permits to display the time with perfect accuracy and to make automatically summer/winter time changeover.

#### IRIG-B/AFNOR coded time receiver

- ▶ The coded time distribution consists in transmitting a complete time message every second : the setting on time of the receivers is realised automatically and immediately after connection to the clock line.
- ▶ The IRIG-B/AFNOR coded time does not transmit interference and is insensitive to other electrical interference.

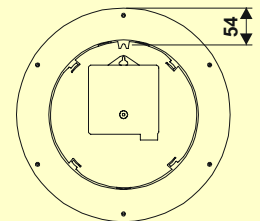
#### Receiver 12/24V minute impulses or 24V second movement

- ▶ The receiver clocks are connected to a distribution line and activated by means of electrical impulses transmitted every minute by the master clock.

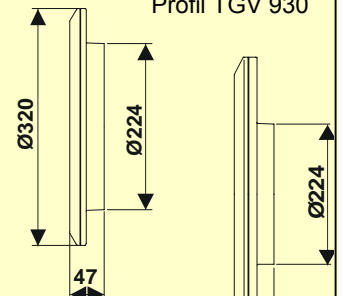
### Norms :

- ▶ Norm NF EN50082-1 : electromagnetic compatibility.
- ▶ Norm NF EN55022 class B : immunity norm for information processing equipment.
- ▶ Norm NF EN60950 : immunity norm for information processing equipment.

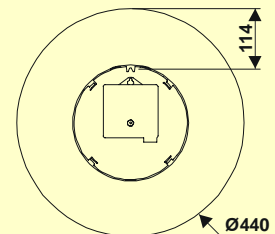
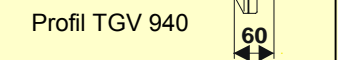
### Dimensions in mm



Profil TGV 930



Profil TGV 940



### Mounting accessories :

- |  |         |
|--|---------|
| ▶ double sided bracket for quartz on battery and 12/24V minute : | 981 001 |
| ▶ secure wall fixing bracket for single sided clock :            | 981 006 |
| ▶ horizontal double sided bracket for IRIG-B/AFNOR movement :    | 984 003 |
| ▶ vertical double sided bracket for IRIG-B/AFNOR movement :      | 984 004 |



**Bodet**