HANDI® 450
DOUBLE FACE WATERPROOF

Analog clock HANDI® Single face
Aluminium case
Distance of legibility: 35m

2 YEARS WARRANTY

Waterproof product but sold except from saline or chlorinated environment

Time setting

The professional HANDI ® clocks can display the same information, by synchronizing through a master clock or a time server.
On pulse version, the time setting is manual

Internal time base

HANDI® has its own **temperature compensated TCXO time** base which allows an accuracy about 0.2 sec / day between 0° to 40°C in case of synchronization loss.

Specifications

Power supply (depending on versions)	230VAC or 110-240VAC 12-24VDC PoE (Power over Ethernet - IEEE802.3af)*
Certifications	CE, EN 62368, EN 55032, EN 55035, ROHS
IP	IP65 front face / IP54 rear face
MTBF	85 000 h
MTTR	15 min
Operating temperature	-20 to +50°C
Weight	4.9 kg
Dimensions	Diameter: 441 mm Thickness: 163 mm

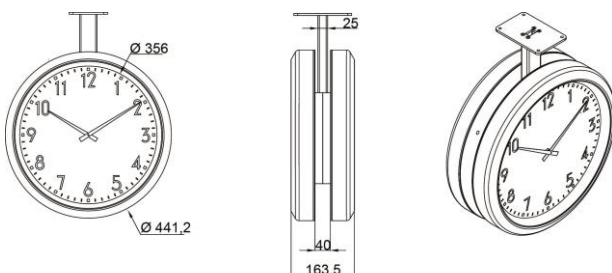*Cable length available 0.80m

Storage conditions

Conditions	Temperature	Hygrometry	Maximum cumulative duration
Extreme	-20°C to 10°C	10 to 85% HR	48h
Extreme	40°C to 70°C	10 to 85% HR	48h
Normal	10°C to 40°C	10 to 85% HR	6 months

The product must be lit for 4 hours every 3 months to keep its characteristics
. see the user manual for more information

Standard Dial

- Arabic figures screen printed in black
- Black lacquered hands
- Trade mark and logo GORGY TIMING screen printed on the dial

Key features

- **Fast but approximate reading of time +/- 0.5 index**
- Flat aluminium case
- Acrylic front cover (Polymethyl methacrylate)
- Ceiling mounting with bracket or flag
- Time setting by synchronization source
- LED illumination in option
- Outdoor use (except from salin or chlorinated environment)
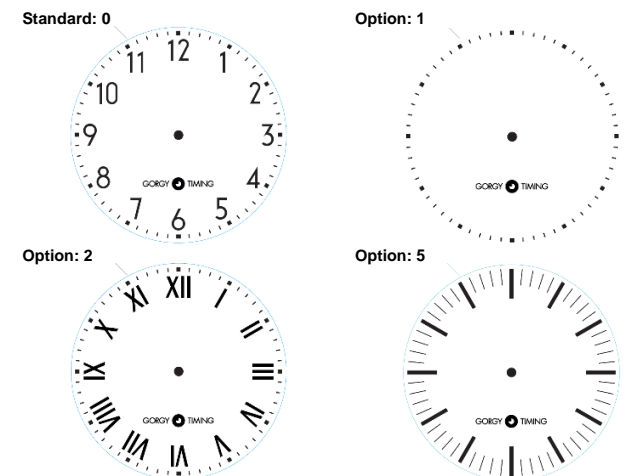
Remote management (on NTP version)

- Synchronisation up to 3 NTP servers
- Time zone selection and automatic summer/winter time change
- Supervision by SNMP v1, v2c
- Accessible configurations by HTTP and/or HTTP(s)
- IPv4 protocol compatibility

Synchronisation input

- AFNOR NFS 87500/IRIG B126
- NTP/SNTP (v2, v3, v4) - Ethernet 10/100 base T
- NTP Wi-Fi (IEEE 802.11 a/b/g/n standards 2.4 Ghz)
- ASCII: RS 485
- DCF 24VDC (synchro: DCF code + power: 24V in pair telecom cable)
- Pulse version*: parallel reversed minute receiver 24V

*No internal time base

Dial design

Standard: 0

Option: 1

Option: 2

Option: 5

Fabriqué en France CE afaq ISO 9001 Qualité AFNOR CERTIFICATION afaq ISO 14001 Environnement AFNOR CERTIFICATION

HANDI® 450 – DOUBLE FACE WATERPROOF

ITEM CODE

Item code prefix: **H 7 4 2 W / 4** followed by six configurable positions (↑ ↑ ↑ ↑ ↑ ↑)

VERSION

Option	Code
Minute 24V/6mA slave movement (without second sweep hand) □	3
AFNOR NFS 87500 (230VAC power supply) ▣	9
AFNOR NFS 87500 (12-24 VDC power supply) ▣	7
(1)ASCII RS 485* (230VAC power supply) ▣	Q
NTP Ethernet 10/100BaseT Synchronization (110-240VAC power supply) ▣	N
NTP Ethernet 10/100BaseT Synchronization (Power Over Ethernet) ▣	P
NTP Wi-Fi Synchronization (IEEE 802.11 a/b/g/n standards 2.4 Ghz) (110-240VAC power supply) ❖	W
DCF 24VDC Synchronization (DCF Code + power 24V in pair telecom cable) ▣	B

MOUNTING

Option	Code
Anodized grey - Celling bracket or flag mounting bracket □	P
Specificity (on request)	✕

COLOUR CASING

Option	Code
Anodized grey aluminium □	7
Anodized grey aluminium with LED illumination □	H
(2)Specific RAL coulour (on request)	✕

DIAL DESIGN

Option	Code
White dial, arabic figures 1 to 12, small indexes □	0
(3)Dial following design in data sheet □	
(3)Specific dial (on request)	✕

SWEEP SECONDS HAND OPTION

Option	Code
Without sweep seconds hand □	0
(4)Black sweep seconds hand □	N
(4)Red sweep seconds hand □	G

OPTION

Option	Code
(5)Synchronization loss Led alarm AFNOR in front face □	A

(1) 9600 bauds 8 bits without parity
(2) Quantity min. 10 units
(3) Quantity min. 5 units
(4) Sweep seconds hand not available in pulse version
(5) Only for AFNOR NFS 87500 versions (version 7 or 9)