

QW-TIME is the complete line of products for operating, controlling and regulating TIME.



QW-TIME comprises a wide range of Master Clocks (WDP-Q), Master Clock Programmers (WDP-Y), and Programmers (WYP) for operation and control of Slave Clocks, Digital Clocks and Time Recorders as well as for controlling and regulating energy and consumers.

Example shown is the Master Clock Programmer WDP-Y8 with minute impulse output and 8 relay outputs.

CHARACTERISTICS AND ADVANTAGES

General

- Fully automatic correction of summer/winter time.
- Easy to program.
- Programming by simple YES/NO instructions over the easy to read LCD display.
- To achieve absolute accuracy, radio synchronization with the transmitters of time code signals type DCF-77
 - (Germany), MSF Rugby (Great Britain) or GPS (Global Positioning System) is available as option.
- Electronic short circuiting protection which resets automatically, transient protection, as well as protection against overload.
- LED-indication of power on, minute impulse output, activated relay output, alarm and receipt of time code signal.
- Built-in "Time Keeper Memory" with lithium battery wich, in case of power failure, stores entered datas for at least 10 years.
- Impulse duration selectable; minute impulse 1-4 seconds, seconds impulse 0, 1-1 second.
- Impulse system selectable; minute, 1/2-minute, seconds or SR2/3.
- Type of time selectable; local time, UTC or normal time.

Master Clocks and Master Clock Programmers

- Minute impulse output, seconds impulse output with high and reliable accuracy.
- 72 hours impulse memory.
- After a power failure the connected slave clocks are automatically reset by rapid impulses.
- In case of short circuiting on the slave clock line, resetting of the connected Slave Clocks are automatically made.

Master Clock Programmers and Programmers

- From 2 up to 64 relay outputs as well as manual swich for control/regulation.
- 800 signal points (control functions) can be programmed over the relay outputs.
- Repeating daily function on a certain output only requires 1 signal point.
- ON/OFF and signal/pulse 1-59 secs. can be programmed for day, week, year or to follow a schedule.
- Schedule programming of, for example, school- and working hours (can handle 6 different schedules per year).
- "Twilight function" wich means possibility of setting one output to follow the sunrise and sunsets.
- After a power failure, the relay outputs are resuming their positions (ON/OFF) wich were previously programmed (with a 10 second switching delay between the different outputs).

WESTERSTRAND URFABRIK AB Sweden

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Туре	Art. no.	lmp.	Relay	Connection	Dimensions WxHxD (mm)	Weight
WDP-Q	122310-00 122312-00	MIN 1A MIN 1A		24 V DC 230 V AC	190X160X103	0,9 kg 1,3 kg
WDP-Q60	122320-00 122322-00	MIN+SEK 1A MIN+SEK 1A	-	24 V DC 230 V AC	190X160X103	0,9 kg 1,9 kg
WDP-Y2	122340-00 122342-00	MIN 1A MIN 1A	2• 2•	24 V DC 230 V AC	190X160X103	1,0 kg 1,4 kg
WDP-Y4	122345-00 122347-00	MIN 1A MIN 1A	4(2•+2°) 4(2•+2°)	24 V DC 230 V AC	265X217X135	1,1 kg 1,5 kg
WDP-Y8	122350-00 122352-00	MIN 1A MIN A1	8(2•+6°) 8(2•+6°)	24 V DC 230 V AC	265X217X135	1,2 kg 1,7 kg
WDP M+S	122360-00 122362-00	MIN+SEK 2A MIN+SEK 2A	8(2•+6°) 8(2•+6°)	24 V DC 230 V AC	265X217X135	1,3 kg 2,5 kg
WYP4- MINI	121306-00 121308-00		4(2•+2°) 4(2•+2°)	24 V DC 230 V AC	190X160X103	0,9 kg 1,1 kg
WYP-8	121320-00 121322-00		8(2•+6°) 8(2•+6°)	24 V DC 230 V AC	265X217X135	1,1 kg 1,4 kg
EXPANSION*	121330-00 122332-00		9-16**• 9-16**•	24 V DC 230 V AC	265X217X135	1,0 kg 1,4 kg
WDP-COMPUTER	121380-00	Time to computers, see separate data sheet		230 V AC	190X160X103	0,9 kg
WDP-WT	122369-00	Time to world time clocks, see separate data sheet		230 V AC	265X217X135	1,9 kg
WDP-C	122368-00	Time to Church Bells, see separate data sheet		230 V AC	265X217X135	1,7 kg

WDP-Q = Master WDP-Y = Master Clock Programmer WYP = Programmer

•) Potential free relay contacts (changing) °) Potential free relay contacts (closing)

*) = Only for WDP-Y8 and WYP-8 **) = Expansion up to 64 relay outputs

ACCESSORIES/OPTIONS

 Running reserve 500 mAh, approx. 7 hours (built-in) 	122391-00
 Running reserve 2,0 Ah (separate case) 	122998-00
 Radio synchronization RDS 	122983-00
 Radio synchronization DCF-77 	122984-10
 Radio synchronization DCF-77L (long distance) 	122984-12
 Radio synchronization GPS 	122982-00
 RS 232-output 3-polar 	122392-00
 RS 232-output 25-polar 	122393-00
 RS 485-output (big case) 	122396-00
 Synchronisation input 	122394-00
 Slave input 	122395-00
 Lockable front cover 	042008-10
 Adapter for DIN-angle mounting (small case) 	042035-00
 Softwares for time to computers. 	Quotation on request

TECHNICAL DATAS

Crystal frequency:	4,915200 MHz			
Accuracy:	0,1 sec./24 hours (at +20°C)			
Microprocessor:	HD6303Y			
Max. load impulse output:	_ Minute 1 A, seconds 0,5 A			
	The output is equipped with short circuiting			
	protection which resets automatically.			
Impulse duration:	- Minute 2 seconds, selectable 1-4 seconds			
	Second 0,5 seconds. Selectable 0,1-1 second			
Running reserve - impulse:	72 hours (impulse memory with rapid impulsing			
	after a power failure).			
Memory reserve:	10 years (lithium battery)			
Relay outputs:	2,4 or 8 potential-free contacts			
Max. load/relay output:	230 V 6 A			
Total load relay outputs:	Number of relay outputs x 6A.			
Connection voltage:	. 230 V 50 Hz± 10% alternatively 24 DC -5% +20%			
Connection effect:	. 10-60 VA depending on model			
Ambient temperature:	0° C up to +40° C			
Relative humidity:	Max. 85%, non-condensing			
Case:	IP 54, light grey plastic (Polystyrol) with			
	transparent protection cover			
CE-Approval, EMC:	Emmission according to EN50081-1,			
	Immunity according to EN50082-2.			