

## Electronic Impulse Amplifier



- To amplify polarized impulses from a master clock
- To amplify wired time code, TC.
- Types of impulses: 1/1 -min. 1/2 -min. 1/1 -sec. or TC
- Impulse voltage: 24, 48, or 60 V selectable via a dipswitch and strappings on the electronics PC-board.

- Four models:
  - 116275-00 for connection to 24 V DC
  - 116276-00 for connection to 230 V AC
  - 116277-00 for connection to 230 V AC and provided with 72 hours impulse memory, which means that in case of a power failure the incoming impulses are stored and when power returns connected slave clocks are automatically reset by rapid impulsing.
  - 116279-00 To amplify wired time code, TC. Connected to 230V AC.
- Three push buttons for ON/OFF, RAPID IMPULSES and RESET (reset of short circuiting protection).
- Electronic short circuiting protection and transient protection. In case of overload the short circuiting protection is triggered. After resetting the short circuiting protection, correction is automatically made by rapid impulses (15 imp./min.)
- For surface wall mounting.

### OPTION/ACCESSORY

- 122998-00 Battery package in a separate case for 2,0 Ah running reserve at polarised minute impulses 24 V DC (only for model 116276-00 and 116279-00).

The battery package can also be used for the Master Clocks WDP-Q, WDP-Y and WYP of the QW-TIME-series.

# TECHNICAL DATAS

Art.Nr	Connection	Impulse memory	Weight
116275-00	24 V DC± 10%	-----	0,4 kgs
116276-00	230 V AC -10% +5% 50-60Hz	-----	0,9 kgs
116277-00	230 V AC -10% +5% 50-60Hz	72 tim.	1,1 kgs
116279-00	230 V AC -10% +5% 50-60Hz	-----	0,9 kgs

Crystal frequency:..... 4,19304 MHz  
 µ-Controller:..... PIC 16C54  
 Impulse output:..... Polarised minute- or seconds output, TC

Impulse length:  
 - Minute impulse:..... 2 sec.  
 - Seconds impulse:..... 1 sec.

Impulse voltage:..... 24, 48 or 60 V selectable via a dipswitch and strappings on the electronics PC-board.

Max. load impulse outputs:  
 - Minute, 24 V (min. 22V):..... 0,8 A  
   Minute, 48 V (min. 42V):..... 0,5 A  
   Minute, 60 V (min. 55V):..... 0,4 A  
 - Second, 24 V (min. 23V):..... 0,4 A  
   Second, 48 V (min. 48V):..... 0,2 A  
   Second, 60 V (min. 60V):..... 0,2 A  
 TC:..... 0,8 A

Impulse input:..... 10-60 V DC polarised impulses (minutes or seconds).  
 The input is OPTO-insolated.  
 10 V..... 5 mA  
 24 V..... 12 mA  
 48 V..... 20 mA  
 60 V..... 30 mA

TC-input..... 24 V..... 12 mA

Running reserve:  
 - Modell 116277-00:..... 72 hours impulse memory via built-in Ni-MH battery 6V, 1200 mAh  
 - Modell 116276-00:..... 2,0 Ah with separate battery package (option/accessory)

Ambient temperature:..... 0°C up to +40°C  
 Relative humidity:..... Max. 85%  
 Case:..... IP 30, beige PVC  
 W = 107 mm, H = 187 mm, D = 95 mm.

Dimensions of the battery package case  
 W = 220 mm, H = 150 mm, D = 100 mm.