

# THREE-PHASE FREQUENCY AND PHASE ANGLE METER

600V

60Hz

3U

Three-phase frequency and phase angle meter realized with a micro-controller technology.

- 3 sinusoidal voltage inputs from 0 to 600Vac.

Multifunction digital module allowing to realize the following measurements :

- Frequency of the 3 voltages
- Phase angle between the 3 voltages
- Phase ranking



Picture for illustration purposes only.

FPM 03

## • Packaging

- Box - «Flight Case».
- Dimensions: L=320 - P=150 - H=200 mm.

## • Main power supply

- 230 Vac Single Phase + Earth - 50 /60 Hz.
- Connection by Europa plug - Cord supplied.
- Protected by mini circuit-breaker.
- Measure and display of the time until 2000s (resolution 1ms)with automatic change of decimal point and display of 5 relevant digits.
- Possible restitution of the results on a RS232 output (optional).

## • Multifunction digital module

Microcontroller controlled module with backlight LCD display and function keys allowing to execute the following operations :

- Frequency of the 3 voltages :
  - Measurement of the frequency of the three-phased voltages.
  - Display of the 3 frequencies (FU1, FU2 and FU3).  
Measure range from 45 to 60Hz.  
Accuracy : +/- 0.1 Hz.
- Phase of the 3 voltages :
  - Measurement of the phases of the three-phased voltages.
  - Display of the 3 phases ( $\varphi U1$ ,  $\varphi U2$  and  $\varphi U3$ ).  
Measure range from  $-180^\circ$  to  $+180^\circ$ .  
Accuracy : +/-  $1^\circ$ .
- Phase ranking :
  - Measure and display of direct or reverse networks.

## • Measure Inputs

- 3 sinusoidal voltage inputs from 45 to 60Hz.
- 2 Voltage ranges : 0 to 300Vac and 300V to 600Vac.
- Security plugs  $\varnothing$  4 mm.

## • Connectivity

- Security plugs  $\varnothing$  4 mm.

## • Options

- RS232 output.
- **CTRWIN** : Real time capture software of the results on windows XP/NT/Vista/7.

Guarantee one year parts and labor. all interventions are carried out exclusively in our factory.

Due to continuous research program, these characteristics can be modified.