

# METERING DEVICES PIC24-4A (4Amp 230VAC) VL676 (10Amp 230-400VAC) VL676-20 (20Amp 230-400VAC)



**PIC24-4A**  
48x48x128mm.



**VI676**  
48x96x90mm.  
**VL676-20**  
48x85x90mm.

Instruments with two programmable control systems, phase angle or fast zero-crossing with phase angle preheating. Built in static relay with load-fuse fault alarm (visual PIC24-4 with relay contact VL676 and VL676-20). These instruments are suitable for controlling **resistive loads such as medium and short wave infrared lamps, uv lamps, primary of transformers and single-phase asynchronous motors.**

**- PHASE ANGLE:**

\* SOFT START 300ms AND AUTO SOFT START IN CASE OF MOMENTARY LACK OF LINE VOLTAGE.

- **FAST ZERO CROSSING** with preheating:

\* PHASE ANGLE SOFT-START, HOLDING FOR 5 Sec. AND TRANSITION TO FAST ZERO-CROSSING WITH CYCLE TIME OF 400ms.

**TECHNICAL SPECIFICATIONS OF PIC24-4A:**

- POWER SUPPLY 230VAC/DC
- STATIC RELAY 4A 230VAC 50hz i2T 10mS 125A
- LOAD/FUSE FAULT ALARM (the point is shown on the display).
- RANGE: 0 - 100% 20 Steps LINEARIZED IN CURRENT.
- Setting saving on E2PROM.

**VL676 TECHNICAL SPECIFICATIONS:**

- POWER SUPPLY 24V AC/DC 2VA
- STATIC RELAY 10A 230/400V AC 50hz.
- BACK PANEL REMOVABLE FUSE 20A FF 500V 6,3x32 ( i2t 125A).
- LOAD / FUSE AND SEMICONDUCTOR FAULT ALARM, WITH N.O. CONTACT 1A 48V AC/DC. RESPONSE TIME FROM EVENT 200ms. (Only the point is shown on the display).
- RANGE: 0 - 100% 20 Steps. LINEARIZED IN CURRENT.
- Setting saving on E2PROM.

**TECHNICAL SPECIFICATIONS VL676-20:**

- POWER SUPPLY 24V AC/DC 2VA
- STATIC RELAY 20A 230/400V AC 50hz i2t 10mS 320A.
- Fan 24V DC 0,15Amp.
- LOAD / FUSE AND SEMICONDUCTOR FAULT ALARM, WITH N.O. CONTACT 1A 48V AC/DC. RESPONSE TIME FROM EVENT 200ms. (Only the point is shown on the display).
- RANGE: 0 - 100% 20 Steps. LINEARIZED IN CURRENT.
- Setting saving on E2PROM.

**PROGRAMMING METHOD:**

- To set the meter with PHASE ANGLE or FAST ZERO CROSSING function, perform the following procedure: With the DOWN key, bring the display value to zero, while pressing DOWN press UP. A line will be displayed, Wait **F** (phase angle) will be displayed. Pressing again DOWN will display **P** (Zero crossing). With DOWN you can alternate F with P. To confirm press UP. The device will restart automatically saving the function on E2PROM.

**OPERATING METHOD OF VI676 - VL676-20:**

To control one or multiple instruments at the same time, we recommend to activate in advance the power with a safety contactor, bringing tension to the controls in the "R" terminals. Then power the meters 24v ac/dc. In this way they will perform the soft start. To turn off, first remove the 24v ac/dc power supply and then open the safety contactor.

**NB: IN THE ELECTRICAL PANELS WHICH HOUSE THE METERS, A SUITABLE HEAT EXCHANGE MUST BE GUARANTEED, USING FANS OR AIR CONDITIONERS SO THAT WITHIN THEM 45 °C IS NEVER EXCEEDED.**

