

computer *max*

New power factor regulators *max6* & *max12*

***Top features, accuracy and technology
at the best price***



Accuracy at your reach

 **CIRCUTOR**

Technology for energy efficiency

User-friendly and fully intuitive installation

computer max provides the “phase selection” function, that allows the user choosing the power line phase where the measuring current transformer (C.T.) has been placed in. This option eliminates the difficulty in placing the C.T. in a specific phase of the power line.

Phase selection function



Test abilities

computer max allows viewing in display the variation of $\cos \varphi$, line current and THD(I), when manually connecting or disconnecting capacitor steps.

- ✓ *Cos φ Correction Test*
- ✓ *Harmonic Resonance Test*

High accuracy regulation

computer max incorporates the **FCP** system (Fast Computerized Program), characteristic from **CIRCUTOR**, making a regulator with unique capabilities.

- ✓ *Reduction of switching operations, so increasing the capacitor bank life span*
- ✓ *Increase of response speed, leading to higher energy savings*
- ✓ *Accurate measuring method, avoiding unnecessary connections/disconnections of capacitors*
- ✓ *4-quadrant compensation, assuring counteraction of reactive energy both in consuming and generating processes*

Accuracy at your reach

Measurement of basic electrical parameters

computer *max* shows by display: $\cos \varphi$, voltage, current, THD(I) and, besides, records in memory maximum values for voltage and current.



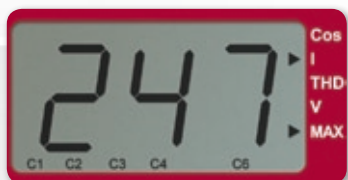
Voltage measurement



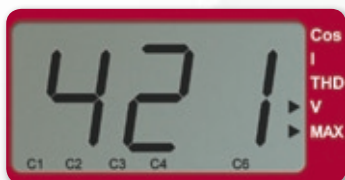
Current measurement



THD(I) measurement



Current maximum value



Voltage maximum value

Built-in alarms

computer *max* automatically assigns the alarm conditions to the last output relay (relay 6 or 12), provided that this is not used for switching a capacitor step.

Indication by display or through relay output of following alarm conditions:

- ✓ *Compensation failure*
- ✓ *Over-compensation*
- ✓ *Over-voltage*
- ✓ *Over-current*
- ✓ *C.T. not connected or open*
- ✓ *Line current below measurable value*



Technical specification

computer *max 6*

computer *max 12*

Voltage circuit	
Supply voltage	230, 400, 480 V AC (according to the model)
Tolerance	-10 ... +15 %
Burden	4 V·A 6 V·A
Frequency	45 ... 65 Hz
Measuring circuit	
Measuring voltage	230, 400, 480 V AC (according to the model)
Measuring current	Transformer $I_n / 5 A + 20 %$
Output relays	
Number of outputs	6 12
Maximum voltage (U_i)	250 V AC
Thermal current (I_{th})	10 A
Electrical endurance	$5 \cdot 10^4 / 5 \cdot 10^6$ operations
Alarms	
Relay	Last relay configurable as alarm output
Alarm conditions	Compensation failure, over-compensation, over-voltage, over-current, C.T. not connected or open and line current below measurable value
Main features	
Measurement of electrical parameters	$\cos \varphi$, voltage, current, THD(I), maximum values of voltage and current
"Phase selection" function	Selection of the power line phase where the C.T. is placed
Integrated control system	FCP / 4 quadrants
Sequence programs	1.1.1.1 / 1.2.2.2 / 1.2.4.4 / 1.2.4.8 / 1.1.2.2
Connection delay time (TR)	4 ... 999 s
Security delay time (TS)	5 x TR
Test abilities	$\cos \varphi$ Correction Test & Harmonic Resonance Test
Environment and mechanical characteristics	
Working temperature	-10 ... +50 °C
Mounting	Panel mounting
Dimensions	144 x 144 mm
Connections	Screw terminals for rigid or flexible wire
Protection degree	IP 52 (frontal side); IP 31 (rear part)
Standards	
EMC	IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-11



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