



## REALCOMP

Most Advanced and Intelligent Real Time Power Factor (RTPFC) and Harmonic Filtration System in the World Designed for Steel Plants for Tuned & Detuned Filter Applications



The Realcomp Dynamic Real Time Power Factor Correction System is characterized by a high switching speed, advanced connectivity and communication features. This IOT enabled System offers unmatched reliability making it most advanced system in the category.

- Real Time compensation
- Extreme long life expectancy
- Integral power quality analyzer with harmonics and waveforms
- Simultaneous switching On and Off of as many banks required precisely at the same time
- Integrated current transformer with specific function for current monitoring and protections of switching modules.
- Very high PIV SCR of 2800V are used to withstand worst of voltage fluctuation
- NFC connectivity for programming via smart devices and App
- Front optical port for connection to a PC via USB or Wi-Fi on both Controller and Thyristor Switching Module
- Thyristor are switched through command via RS485 bus. Single Controller can fire upto 31 steps
- Advanced communication functions - IOT enabled
- LCD graphic display with backlighting
- Panel over-temp. protection via internal sensor
- Very low losses single layer AL / Cu. wound Harmonic Block Reactors with 200% linearity
- Super Heavy Duty Cylindrical Capacitor Banks from Ducati Energia, Italy

### **Realcomp Controller is easily expandable**

Multiple slots are available for inserting various expansion modules like:

- relay outputs for alarm and thresholds
- digital inputs
- PT100, 0/4...20mA, 0...10V, 0...±5V analogue inputs
- analogue outputs type 0/4...20mA, 0...10V, 0...±5V
- communication ports: USB, RS232, RS485, Ethernet, Profibus-DP, Modem GPRS-GSM
- data memory, calendar-clock with backup reserve energy for data logging.

### **Programmable protection thresholds**

The following protection thresholds can be programmed using mobile App

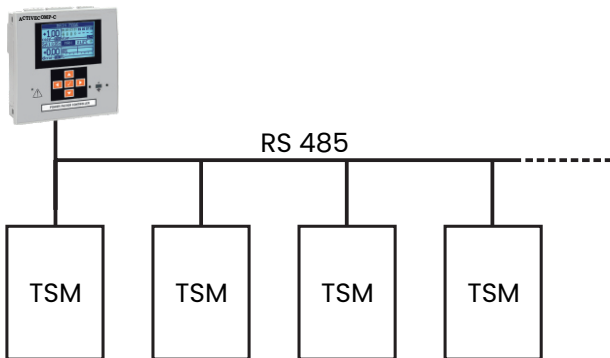
- maximum current & voltage threshold
- heatsink & capacitor bank max. temperature threshold
- THD-I threshold and current asymmetry threshold
- capacitor residual power min. threshold

### **Software Compatibility**

- Mobile application for Android and iOS smart device
- Software for remote control & configuration from PC.
- Data view for supervision and energy management

**Perfect and Reliable Control and Monitoring through Dedicated RS485 Bus**

Perfect coupling with the Thyristor Modules, which are fired, controlled and monitored via RS485 bus as per figure below.



**Steps Statistics**



**Alarm Diagnosis**



Through the RS485 serial command it is also possible to monitor the status of each single thyristor module from the Realcomp Controller display and read measurements such as residual power, voltages, currents, THD-I, temperature and working hours.

**GSM / GPRS for Alarms or Event SMS and E-mails**

With the GSM expansion module, the controller is equipped with a GSM / GPRS modem, automatically configured by the control unit. This simplifies installation and wiring.



\*Specifications are subject to change without notifications



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**IR Front optical port for programming, monitoring and diagnostic functions**

The optical port on the controller and thyristor module front allows you to communicate with your PC, smartphone and tablet via USB device or Wi-Fi to perform programming, monitoring and diagnostic functions.

- no needs to switch off the power supply
- electrical safety (no risk of accessing dangerous live parts)
- convenience of operating directly from the front



**IR Port**



**USB Module**



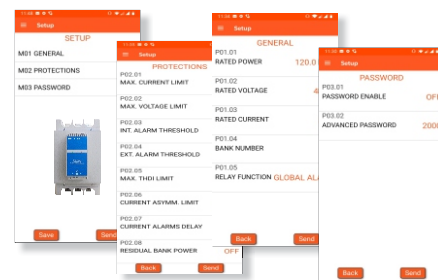
**Wi-Fi module**

**Advanced connectivity features for programming, control and monitoring :**

**NFC App**



**Mobile App**



**Configuration & Remote Control Software**

