

**Type: TR-AC-01****Microprocessor controlled units**

Further technical details can be found in Chapter 10

Document 10-100-R2

CORROCONTROL-2

The variable output controller units are equipped with a specially designed microprocessor which can be set to operate the transformer rectifiers in any one of the following three automatic output control modes:

- **Constant voltage mode**  
automatically maintains **DC output voltage** at a preset level. Level can be continuously adjusted from any value between zero and maximum rating
- **Constant current mode**  
automatically maintains **DC output current** at a preset level. Level can be continuously adjusted from any value between zero and maximum rating
- **Potential control mode**  
automatic control to maintain the **structure-to-electrolyte potential** at preset level in response by a signal from a reference electrode

**Other features**

- operating mode is selectable by four programmed buttons on the front panel
- modern 1 MHz switcher with efficiency up to 90% at 24 -10 A
- protection against current surges in operation mode
- all data input and measuring values are displayed on a 2-line alphanumeric LCD display
- failure indication by LED
- built-in current interrupter for on/off measurements
- menu settings and readings programmable in different languages
- in case of network power failure, the unit automatically reverts to the last programmed operating mode. All preset values are retained.

The transformer rectifier is mounted on a 19" rack convenient indoor or outdoor installation (depending on type of enclosure).

All transformer rectifier control modules are provided on printed circuit boards.

**Parallel operation**

The transformer rectifiers can be connected in parallel to increase the DC output power if required.

**Master-slave parallel operation**

One master unit can drive 4 slave units. A slave unit can drive 4 further slave units. In parallel operation, the output current will be distributed equally amongst the slave units. The master-slave combination functions can be adjusted or programmed via the master unit.

**Technical data**

AC input	single or three phase 230 V $\pm$ 10 %, 50 or 60 Hz single or three phase 400 V $\pm$ 10 %, 50 or 60 Hz other voltages or frequencies on request
DC output	up to 50 A, up to 50 V, max. 2.5 kW
Control method	Standard: Constant voltage, stepless adjustment
Protection class	depending on enclosure
Temperature	ambient temperature: max 50° C, min. -20° C
Current limit	protection against current overloading
Thermal protection	a thermostat disconnects the output in case of unit overheating

**Options**

- Manually controlled output regulation devices
- Remote Monitoring and Control Systems (RMCS)