German Cathodic Protection

Type: Single or multiple output module TR-AC-02

Designed for cathodic protection systems in industrial plants such as: power plants; petrochemical plants; pump stations; tank terminals and compressor stations.
The number of required modules depends on the cathodic protection system.

Microprocessor controlled units
Further technical details can be found in Chapter 10 Document 10-100-R0
Corrocontrol Output Regulator (CCOR)

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 V-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.



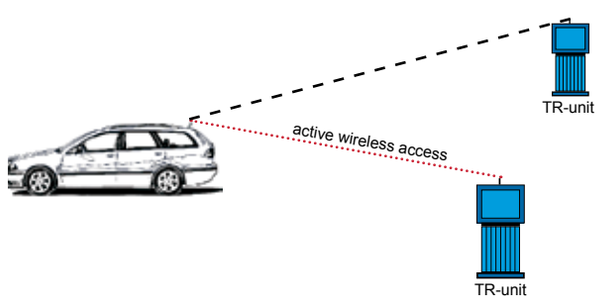



Technical data

AC input	single or three phase 230 V ± 10 %, 50 or 60 Hz single or three phase 400 V ± 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

Operating modes

- manual operation on site
- via company network
- via WLan

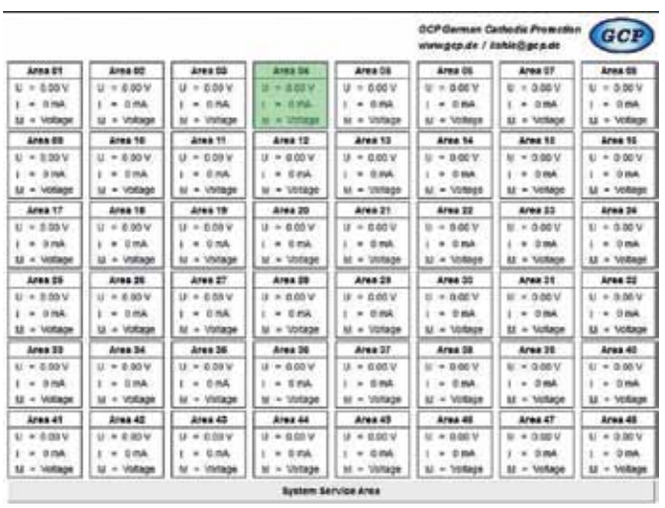


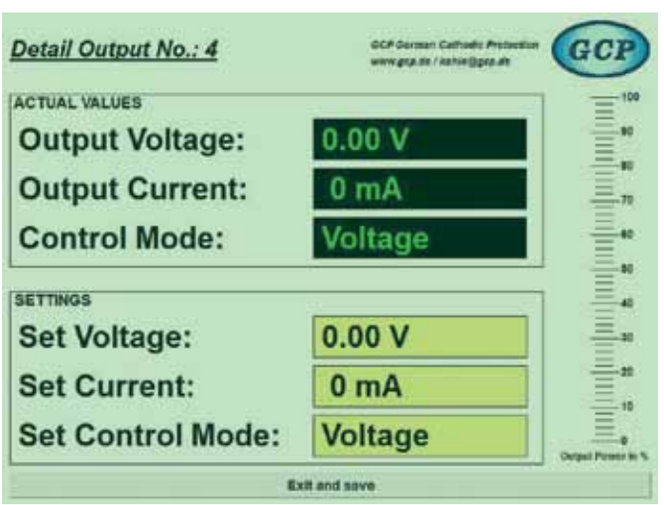
Type: Multiple output module TR-AC-02
with touchscreen operation and monitoring

Cost-effective operation and monitoring

Range includes 3.5“ to 15” displays, keypad or touch screen controls. Panels designed with the IP65 protection class for optimal viewing even in severe climatic conditions. Additional advantages include integrated software functions, such as a reporting system, recipe management, or graph functions.

Example configuration:
PROJECT MOMBASA PORT KENYA
Multiple output module TR-AC-02 with touchscreen operation and monitoring for 48 protection areas





Output control modes as described on Sheet: 1