

# PUMP REGULATOR GR-4 FOR GIGANT PUMPS

Specially developed for groundwater sampling by proven Gigant pumps at up to 36m of water level depth and using a 12 V battery power supply. A frequency converter guarantees optimal voltage and efficiency of Gigant pumps. The outflow can be regulated.

## MAIN FEATURES

- Enables connection to Sets of 1,2,3, and 4 Gigant and Booster pumps to a standard car battery
- Frequency converter, delivered simultaneously, guarantees optimal voltage even when long cables are used
- Powered by a typical 12 V car battery (or external 12 V battery if desired)
- Safe supply voltage of 12 V (even if sampling under wet conditions)
- Regulation of outflow from 0 – 100 % (low flow sampling possible)
- For water sampling from monitoring wells at depths of up to 36 m
- Protected against pump overheating and deep battery discharge
- Splash water tested
- No need for a 230 VAC power generator on the sampling site
- Saves energy in your battery

## IMPORTANT NOTICE

For water sampling and well purging the following equipment is also necessary, which is not part of the Pump Regulator GR-4:

- Sets of Gigant pumps including a special 4 wire cable, waterproof coupling, and connector
- A 12 VDC supply (typical car battery)
- Tubing, mostly inexpensive PE, diameter 10/12 mm
- Cable reel (recommended)



The Pump Regulator GR-4 was specially developed for the proven Gigant pump. These Gigant pumps are small electric centrifugal pumps powered by 12 VDC. One Gigant pump is able to lift water for at least 9 m and can be combined with Booster pumps in series of 1, 2, 3, and 4 pumps. The series is called “Sets of Gigant pumps”, which are able to pump water from 8, 18, 27 and 36 m respectively.

As only a 12 VDC supply can be used there was a problem of a significant drop of voltage if more than 1 pump was connected to the battery and if the cables were longer than 10 m. This has now been solved thanks **to the GR-4 Pump Regulator and the frequency converter** inserted between the GR-4 and the battery. In this way, the pumps are operated under optimal conditions with optimal efficiency. The GR-4 Regulator further enables the user to regulate the outflow in the range of 0 – 100 %. The maximal outflow corresponds to the water depth below the surface; Q/H curves are available for different sets of pumps. An additional advantage is built in protection against pump overheating and deep battery discharge.

TECHNICAL SPECIFICATION	
Supply voltage range (VDC)	10–15
Max. input current (A)	12
Range of temperature (°C)	-10 to +50
Range of outflow regulation	0–100 %
Max. number of Gigant/Booster pumps	4
Protection against short circuit and overheating of the pumps	yes
Protection against deep battery discharge	yes
Automatic setting for number of pumps	1–4

For further information about the sets of Gigant pumps please see the leaflet entitled “Sets of Gigant Pumps for Regulator GR-4”.