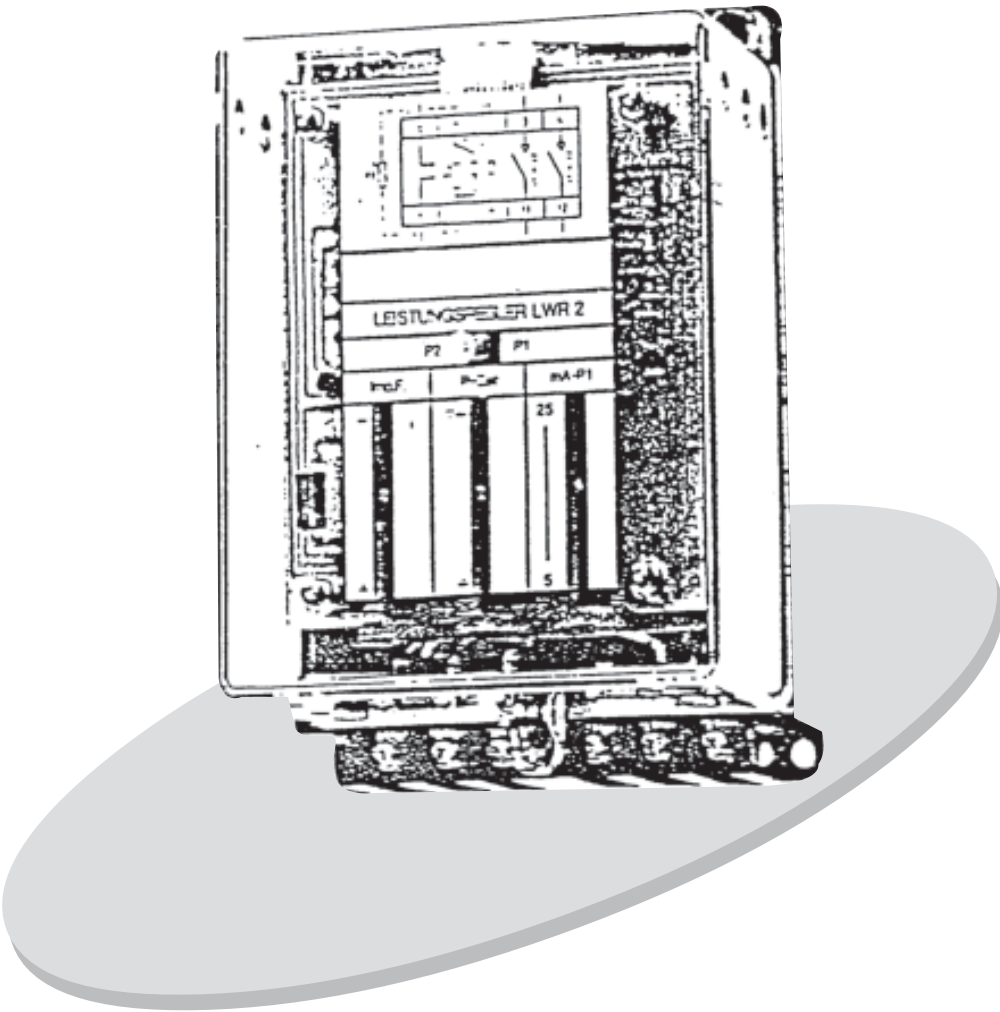


Functional Range

LWR2 - Load Control Unit



C&S Protection & Control Ltd.

Contents

	Page No.
1. Application	3
2. Function	3
3. Adjustment of the sensitivity	3
4. Description of the connections	4
5. Functional process	4
6. Technical data	5
7. Dimensions	8
8. Information required with Order	8

1. Application

Unit **LWR2** serves as automatic follow-up of generators at load pre-setting, e.g. at peak load operation. The generator output power is measured via a power measuring transducer.

2. Function

Unit **LWR2** compares the actual generator output power with the load pre-setting.

Switch in position P1: Adjustment by means of the potentiometer (5-25mA)

Switch in position P2: Adjust via an external potentiometer:

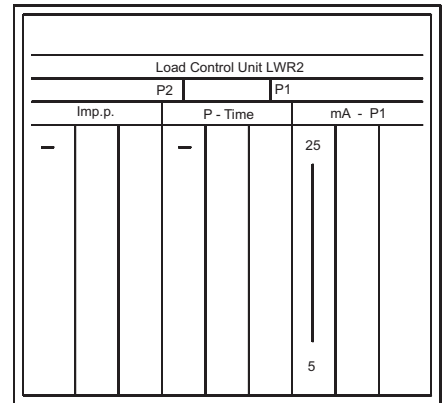
According to the difference the pulses are given to the adjusting device. In case of mains parallel operation the power output of the generator is controlled by means of signals to the adjusting device of the engine. The actual value of the current is proportional to the power output of the generator. The pulse sequence changes proportionally to the difference between the rated- and value. Because of this a best possible follow-up is guaranteed.



3. Adjustment of sensitivity

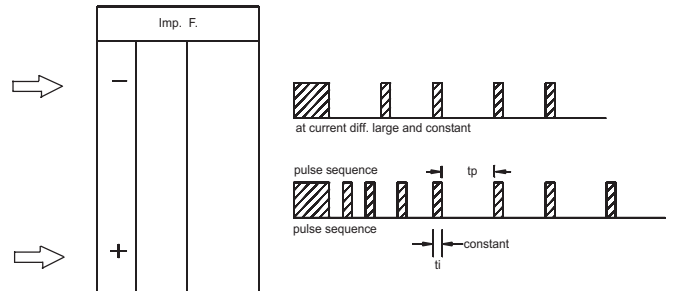
Unit **LWR2** has three potentiometers for adjustment of the sensitivity.

With the right potentiometer mA-P1 the load pre-setting can be adjusted with switch position P1.



Adjustment of the pulse sequence (t_p) at potentiometer "Imp F." at constant pulse duration (t_i)

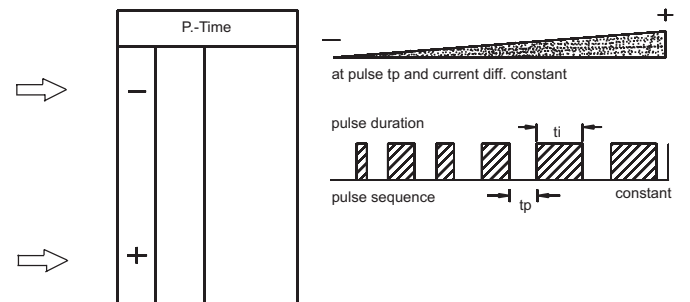
Output of a constant pulse. The control reacts very sensitive to the current differences.



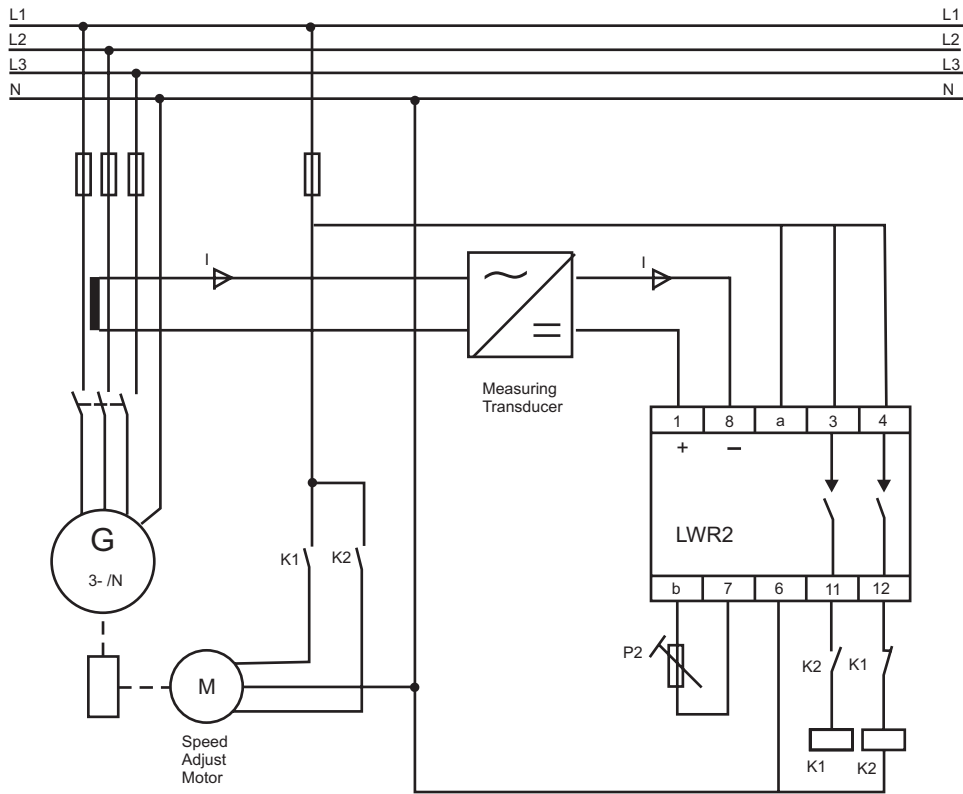
At current differences only a few pulses, i.e. the control is insensitive.

Adjustment of the pulse duration (t_i) at potentiometer "P-Time" at constant impulse sequence (t_p).

The pulses are suppressed completely.

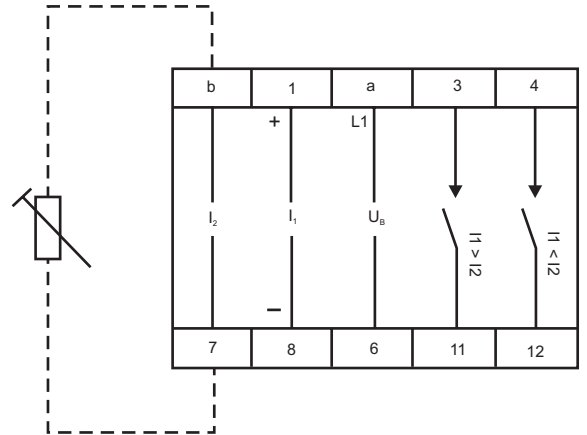


Pulse duration is long.

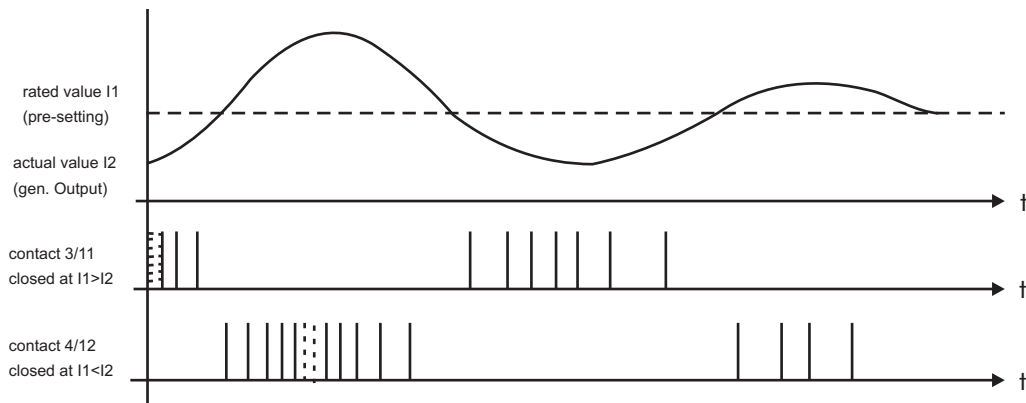


4. Description of the connections

- a/6 Supply voltage
- b/7 In switch position P2 load presetting via external potentiometer
- 1/8 Current actual value from the measuring transformer
- 3/11 Impulse when value I1 is large than 12
- 4/12 Impulse when value I1 is smaller than 12



5. Functional process

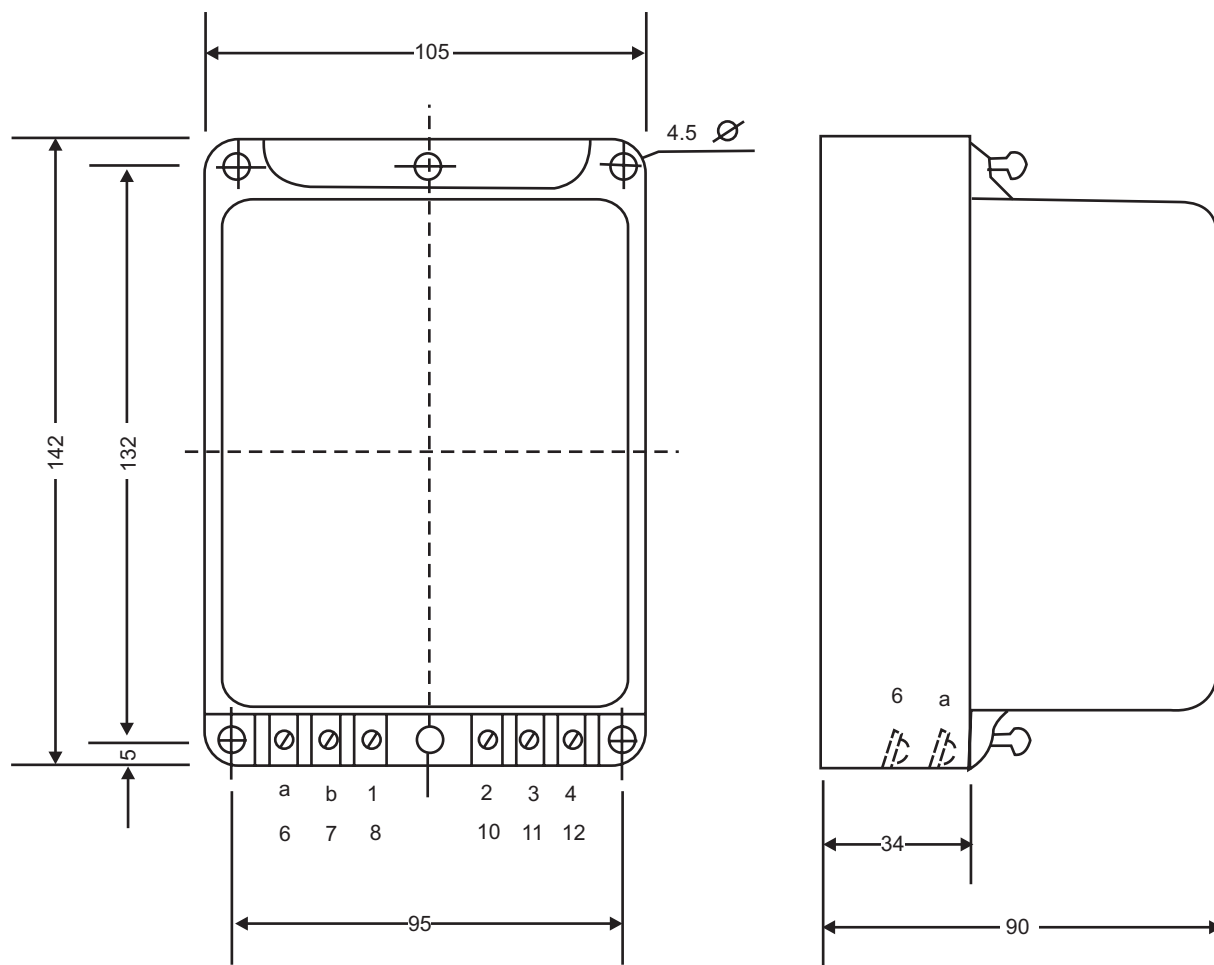


6. Technical Data

LWR 2 - Load Control Unit

General Data	Type : LWR2 Maintenance : none Permissible operating time : continuous Mounting position : optional, panel mounted
Auxiliary Supply Voltages	Supply Voltage Ua : 110/220/240/380 V Frequency : 50-60 Hz Permissible voltage variation : $\pm 10\%$
Adjustments	Pulse sequence : see page 3 Pulse duration : see page 3 Current pre-setting range : 5-25 mA
Output Circuits	Contacts potential tree : 2 pulse-outputs Contact load : 200 VA at 250 V/AC or 2 A at 24 V/DC Contact-material : silverplated Contact life : 10 ⁶ switching operations Terminals : M4, wire termination max. conductor 2.5mm ²
Ambient Conditions	Ambient temperature range : ● for storage : -40°C up to +70°C ● for operation within : -20°C up to +60°C claimed accuracy
Case dimensions Weight and Installation	Case : CSPC standard case Material : track resistant moulded base and transparent cover Height ● width ● depth : 142mm ● 105mm ● 90mm Weight : 0.4 kg (approx.) Mounting : screwed Protection class case : IP20 terminals : IP00

Dimensions - mm



Information required with order:

Load Control Unit		LWR 2
Rated frequency	50 Hz	<input type="text" value="50"/>
Auxiliary supply voltage	110 V AC 230 V AC	Ua = <input type="text"/> V/AC

For further information, please contact :



C&S Protection & Control Ltd.

44, Okhla Indl. Estate, New Delhi-110020, Ph.: 011-55602414, 26319465-66 Fax: 011-55602413 email: cspc@controlsindia.com

Marketing Office : DELHI : Ph.: 55602414, 26319465-66 Fax: 55602413 CHANDIGARH : Ph. 2776154, 2776151, 2726153 Fax: 2726154
 KOLKATA : Ph. 24549607-08 Fax: 24549371 MUMBAI : Ph.: 24114727-28 Fax : 24126631 PUNE : Ph.: 5444822-824, Fax: 5410820,
 AHMEDABAD : Ph.: 65841425, 6589132 Fax : 6589132 BANGALORE : Ph.: 5586147, 5323582, 5594939 Fax: 5582796,
 CHENNAI : Ph.: 26426475, 26426572 Fax: 26411972 HYDERABAD : Ph.: 27813003, 55332304 Fax: 27812987