



®

Zakład Elektronicznych Urządzeń Pomiarowych

POZYTON

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RCON – 3 – measuring voltage control unit

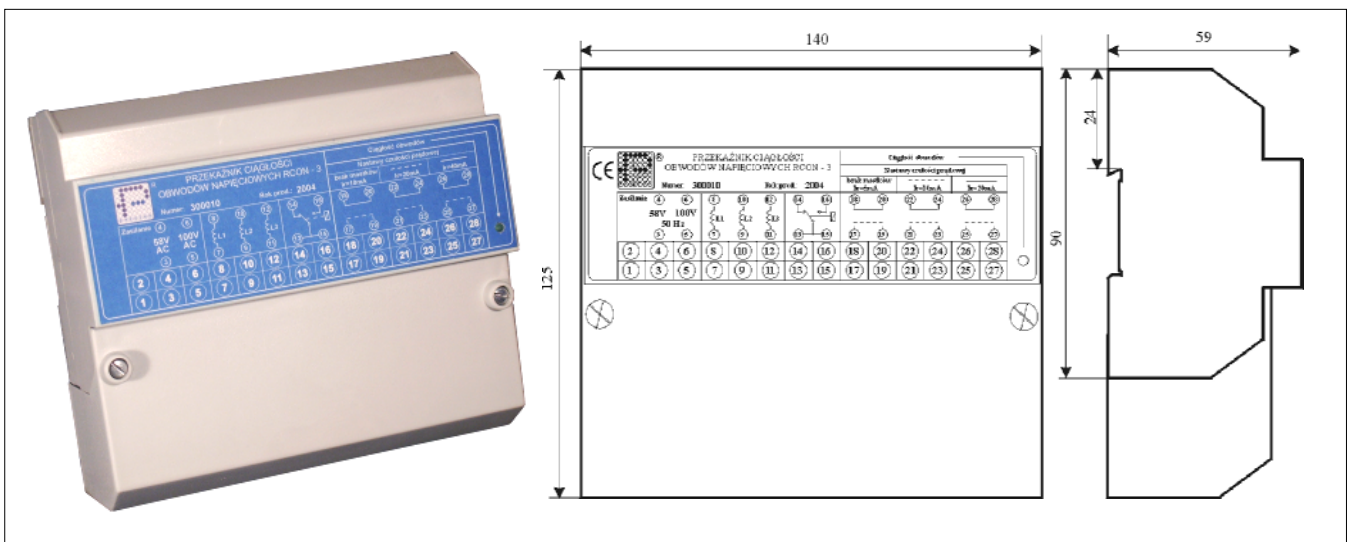
The **RCON-3** has been designed for controlling of the measuring voltages applied in the electricity measuring systems. This unit controls the current floating in voltage circuit. When the current value in any phase is lower than the threshold value (predefined for certain type of meter's family) the state of the comparator phase output changes. The comparator activates the output relay which may be connected to auxiliary signaling equipment.

When all measuring voltages are present at the measuring panel the green LED on the front panel of the unit is on. When even one of measuring voltage is off (since the voltage circuit is disconnected or the fuse is broken) the LED is switched off.

There are three types of **RCON-3** available depending of current sensitivity: 1 mA, 2 mA, 4 mA or 5 mA, 10 mA, 20 mA or 10 mA, 20 mA, 40 mA. Setting up the current sensitivity is performed using the bridges.

For example.:

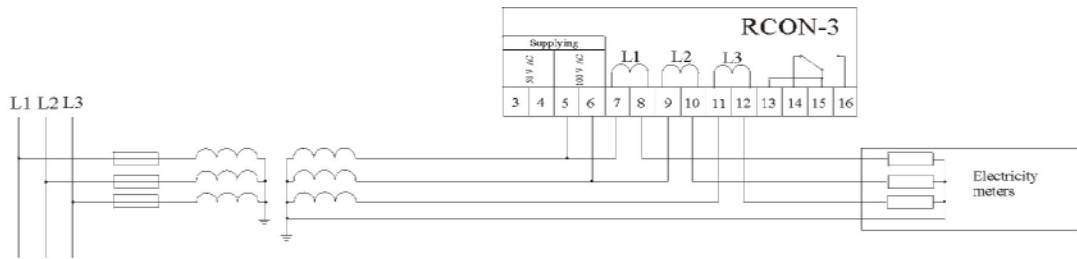
- Bridges configuration for 5 mA, 10 mA, 20 mA current sensitivity:
 - 1 mA - no bridges,
 - 2 mA - (17-19); (21,23); (25,27),
 - 4 mA - (18,20); (22,24); (26,28),
- Bridges configuration for 5 mA, 10 mA, 20 mA current sensitivity:
 - 5 mA - no bridges,
 - 10 mA - (17-19); (21,23); (25,27),
 - 20 mA - (18,20); (22,24); (26,28),
- Bridges configuration for range of 10 mA , 20 mA, 40 mA current sensitivity:
 - 10 mA - no bridges,
 - 20 mA - (17-19); (21,23); (25,27),
 - 40 mA - (18,20); (22,24); (26,28).



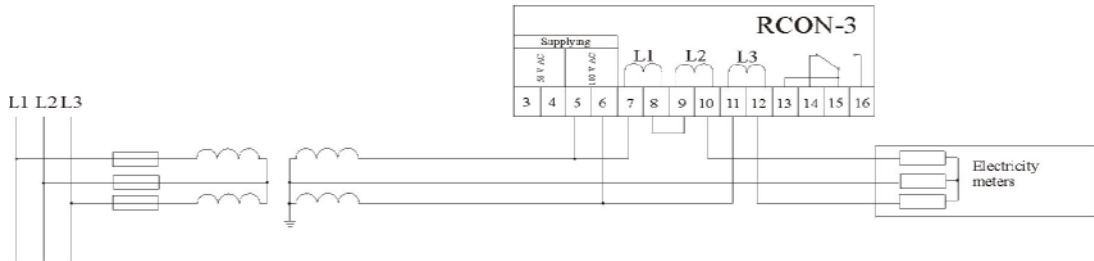
This device fulfils requirements of European Directive 89/336/EWG and is given CE certificate.

Basic technical data:

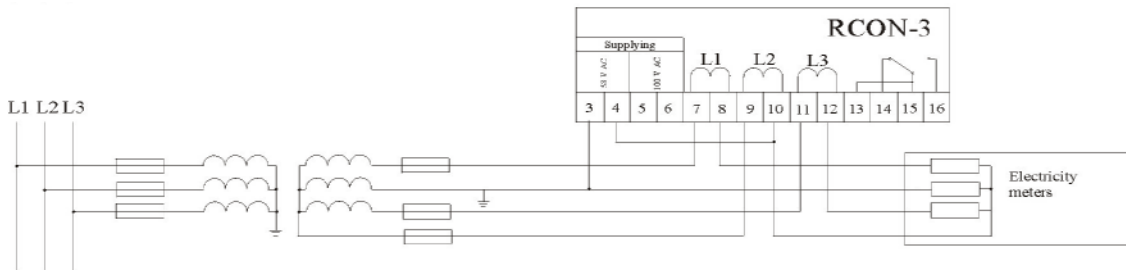
Supply	58 V AC or 100 V AC or 230 V AC
Power consumption	≤ 2,5 W
Current sensitivity I_r (set)	1 or 2 or 4 mA 5 or 10 or 20 mA 10 or 20 or 40 mA
Output impedance	0,2 Ω
Output relay	250 V AC, 8 A
Housing	standard, TH - 35



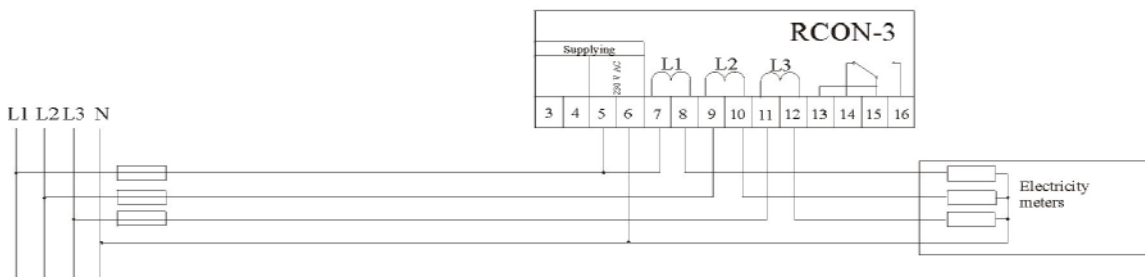
Pic.1. Connecting diagram for 3 x 58/100V „Y” measuring system.



Pic.2 . Connecting diagram for 3 x 100V „V” measuring system.



Pic.3. Connecting diagram for 3x58/100V „Y” measuring system (phase L2 linked to ground)



Rys.4. Connecting diagram for 3 x 230/400V measuring system.