

Input  
Level Control  
Output

Power Supply

Consumption  
Operating Temperature / Humidity  
Protection Class: front / terminals

- ☐ contact, ☐ resistive
- ☐ supply, ☐ drainage
- ☐ relay 5A/250VAC with NO/NC contact,
- ☐ SSR 1A/250VAC,
- ☐ MOS gate 0.1A/60V, optically isolated,
- ☐ 5...24 VDC, 30 mA for external SSR
- ☐ 230 VAC, ☐ 115 VAC,
- ☐ 90...250 VAC/DC, ☐ 24 VAC,
- ☐ 12...24 VAC/DC
- less than 2 VA
- 10...65 °C / 0...85% RH
- ☐ IP65, ☐ IP54 / IP20

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## LEVEL CONTROLLER

### LC05

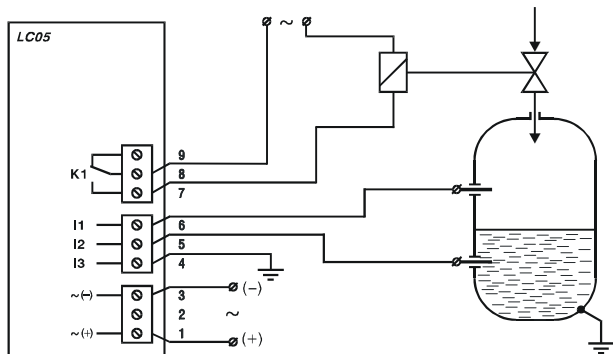
#### OPERATION MANUAL



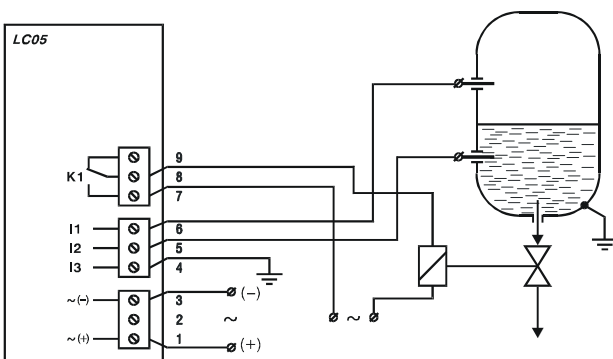
Please read this Operation Manual before mounting and operating!  
Save the Manual for future references!

## Wiring

### Connecting conductivity cell electrodes and metal tank (supply control)

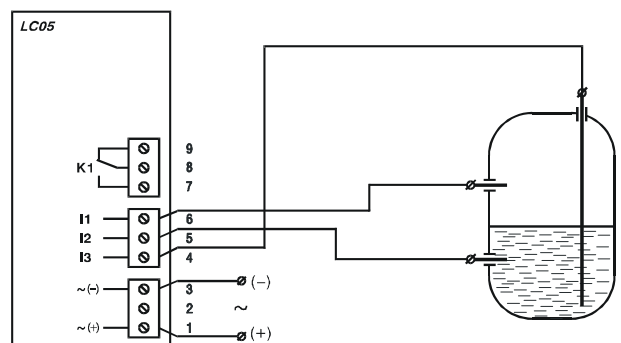


### Connecting conductivity cell electrodes and metal tank (drainage control)

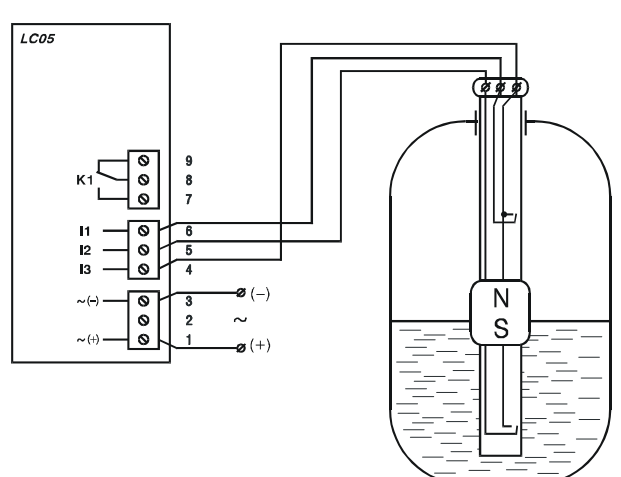


## Wiring

### Connecting conductivity cell electrodes and non-metal tank



### Connecting contact float probe



OVERVIEW	3
MOUNTING	3
WIRING	4
EMI ISSUES	6
DECLARATION OF CONFORMITY	7
WASTE DISPOSAL	7
SPECIFICATIONS	8
WARRANTY AND SUPPORT	8



The undersigned hereby declares, on behalf of COMECO Inc., that this device has been manufactured in compliance with standards EN 61000 and EN 61010, and meets the requirements of Directives 73/23/EEC and 89/336/EEC.

Vladimir Sakaliyski  
CEO  
COMECO Inc.

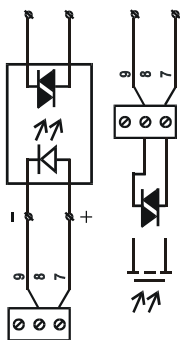
## Waste Disposal



*Do not dispose of electronic devices together with household waste material!*

If disposed of within European Union, this product should be treated and recycled in accordance with the laws of your jurisdiction implementing the WEEE Directive 2002/96 on the Waste Electrical and Electronic Equipment.

## Wiring



## Output wiring

Connect the output with regard to its type (see '**Specifications**') as shown on the left.

## Power supply wiring

Connect the right power supply voltage for your device (see '**Specifications**'). via terminals 1(+) and 3(-).



## Important notes:

- ◆ In case of 90...250 VAC/DC power supply, grounding the device through terminal 2 is mandatory for covering safety standards.
- ◆ Power supply must be turned off during the wiring!

## Overview

LC05 is a low-cost level controller for supply or drainage level control. Its operation is based either on measuring electrical conductivity of the liquid between electrodes, or on monitoring float state via magnetic or electro-mechanical float switches. The first method allows controlling liquids with relatively high conductivity, and the latter is applicable for various non-conductive liquids. The controller's high-tech specialized electronic circuit guarantees accuracy and stability, prevents electrolytic polarization, and ensures stable operation. Therefore, the level controller LC05 is a reasonable solution for a wide range of level related problems.

## Electro-Magnetic Interference (EMI) Issues

- ◆ All signal wires must be shielded. They must not be packaged together with power cables!
- ◆ Never lay the signal wires close to inductive or capacitive noise sources, such as relays, contactors, motors, etc.!
- ◆ All shields have to be grounded ONLY at one end, as closer as possible to the controller terminals!
- ◆ Avoid sharing supply lines with powerful consumers, especially with inductive loads, switched on and off.
- ◆ To stop unwelcome interference signals entering through the power supply lines, use shielded 1:1 isolation transformer!
- ◆ Shunt all switched (not only those switched by the controller) inductive consumers with special suppression networks: RC group and varistor - for AC loads, or diode - for DC loads.

## Mounting

- ◆ Place LC05 into a 42 x 90 mm panel cut-out.
- ◆ Tighten it into place using the enclosed mounting brackets.