

Microprocessor-based level and temperature controller LT-CON

- ✓ Conductometric level controller for 4 levels or 2 levels and temperature control
- ✓ Level controller - autotunable according to the operating medium
- ✓ User selectable mode of level control - filling/emptying
- ✓ User selectable ON/OFF or proportional algorithm of temperature control
- ✓ Option for emergency switching off of the heater at absence of liquid



The model LT CON of “Microsyst” is designed for control of filling/emptying of water, water solutions or other conductive liquids. It has four inputs - two inputs for probes “HIGH LEVEL” and “LOW LEVEL”, and the other two inputs are performed in two variants - probes for “HIGH ALARM”, “LOW ALARM” or with input for temperature sensor Pt100. The model LT CON - level and temperature controller with input Pt100 can realize ON/OFF or proportional algorithm of temperature control (program selectable). There is an option for emergency switching off of the heater at absence of liquid. LT CON - level controller with 4 inputs for level probes allows different variants for control of 1 or 2 vessels with hysteresis by level and/or by time. The operating mode filling/emptying is program selectable by the user. The device has 2 NO 250V/5A relay outputs (option OC for SSR) with joint terminal. The device has indication LED 3 digits for indication of the measured temperature (for the model for level and temperature control), or the operating mode of the level controller. Case - IP40, installation on a rail - M36 DIN-RAIL.

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| Operation principle | <i>Conductometric</i> |
| Analog inputs | <i>1 input Pt100 + 2 inputs level / 4 inputs level</i> |
| Resistive thermal sensor | <i>Pt100</i> |
| Probes for lower, higher level, 2 inputs alarm by level | |
| Relay outputs | <i>2</i> |
| K1 – FILLING / EMPTYING | <i>Relay 250 V / 5 A or OK for TTL T reaction = 160 ms max</i> |
| K2 – HEATER / ALARM BY LEVEL OF THE LIQUID | <i>Relay 250 V / 5 A or OK for TTL T reaction = 160 ms max (for alarm by level of the liquid)</i> |
| Working out of time intervals | <i>Without quartz stabilization</i> |
| Display | <i>1x3 digits LED</i> |
| Range of the display | <i>-199 ... 999</i> |
| Accuracy | <i>± 1 LSB</i> |
| Format of the display | <i>XXX</i> |
| Keyboard | <i>Folio</i> |
| Power supplying voltage | <i>220 V AC +10% -15 % 24 V AC/DC 12 V AC/DC</i> |
| Operating temperature | <i>0 ... 50 °C</i> |
| Operating relative humidity | <i>0 ... 80 % RH</i> |
| Overall dimensions (WxHxL) | <i>35x86x57 mm</i> |
| Installation | <i>M36 DIN-RAIL, at minimum distance 30mm</i> |
| Weight | <i>max 200 g</i> |
| Storage temperature | <i>-10 ... 70 °C</i> |
| Storage relative humidity | <i>0 ... 95 % RH</i> |