

# Conductance Measuring Device LWM-8E



## Technical Data

### Voltage Supply

230 VAC +5%/-10%, 50Hz

### Power Consumption

ca. 7 VA

### Measuring Input

0 ... 200 mS/cm  
accuracy: better than 1% of full scale other ranges and cell constants on request

### Temperature Sensor

Pt100 in three conductor mode  
temperature compensation within range of 0 ... 100°C, temp. measurement from -50°C ... 150°C. resolution: 0.5K (rounded internally).

### Relay Outputs

8, max. 230 VAC, 2A, in 5 neutral groups

### Current Output

0(4) ... 20 mA max. load 400 Ohm linearity: 0.5% FS

### Voltage Output

0(2) ... 10 V min. 1 kOhm linearity: 0.5% FS

### Climatic Conditions

acc. to DIN EN 60204-1 ( 05-2010 )  
Ambient temperature  
in operation: -20 ... +55 °C  
transport / storage -25 ... +55 °C

### Housing

DIN panel mount housing (IP40), with transparent cover up to IP 65 in front of switchboard

### Dimensions

W / H / D : 144 x 72 x 125 mm (incl. cable connector)  
mounting depth with clamps & plugs without cable min. 126 mm

### Cut-out dimensions

B x H : 137 x 67 mm

The LWM-8E is a digital conductance meter with a measuring range of about 0 ... 200 mS/cm.

The complete possible range of indication (for example up to 99,99 mS/cm at a probe factor of K=1/cm) is captured during measurement, but the unit measures with decreasing resolution and exactness in case of measurement range exceeding. Cable capacities up to 50 nF may be masked by means of a special measuring procedure. The device is equipped with a micro-processor controlled conductance measurement amplifier, two recorder outputs (0) 4 ... 20 mA and (0) ... 10 V, as well as two limit value contacts with time delay. A Pt100 input in three-conductor mounting is provided for the temperature compensation of conductance as well as for the temperature limit contact. The recorder output can be scaled arbitrary within the whole measuring range (in this way a conductance range of e.g. 15 ... 50 mS/cm can be assigned to the current of 4 ... 20 mA and / or to the voltage of 2 ... 10 V).

The device inter alia is used in applications for waste water technologies, process water monitoring, desalination plants, etc.

## Ordering Information:

LWM-8E: E2021