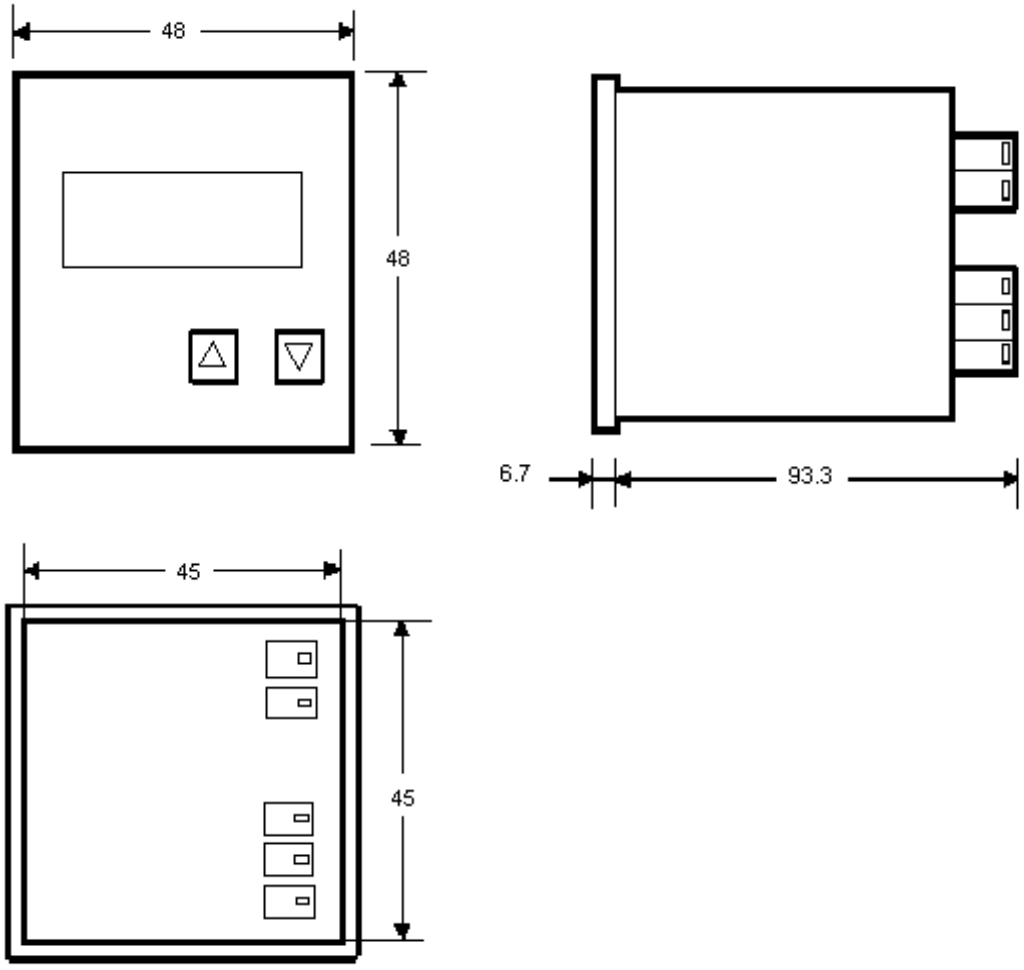

Manufacturer:

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OPKON
OPTIC ELECTRONIC LTD.

MODEL OP-MD3

DIGITAL DISPLAY FOR POTENTIOMETRIC SENSORS OR 0-5V INPUT

Ver 2.0E

USER GUIDE

WARNING!

READ CAREFULLY BEFORE POWER ON

1. **Complete electrical connections according to the schematic at the third page.**
2. **Check Supply Voltage 220V (or 24V optional) AC, or DC, due to Specifications on the equipment.**
3. **Use only shielded cable for sensors.**
4. **Keep away the equipment from direct heat source.**
5. **MODEL OP-MD3 is not suitable for outdoor use.**
6. **Keep away the equipment from water or other liquid drains.**
7. **Do not open, modify or replace any component in the equipment, If any problem occurs please contact an authorised OPKON technical service or OPKON directly.**

ELECTRICAL SPECIFICATIONS:

Microcontroller based
10 bit Analog/Digital converter
Up to 200 kSPS
Two point calibration

Power supply	:220V ± % 20 (or 24V optional) ,50 Hz
Power consumption	:<4 VA(protected by fuse 50mA)
Sensor supply voltage	:+5V or +12VDC(selectable by jumper)
Sensor supply current	:Max.100mA(no fuse)
Input	:Potentiometric or 0-5V DC

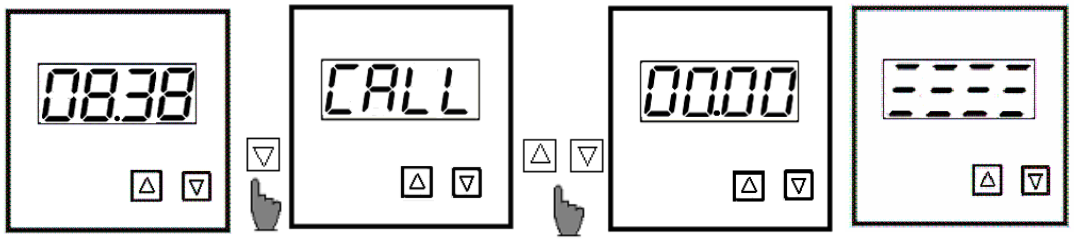
MECHANICAL SPECIFICATIONS:

Dimensions	:48x48x100 mm
Panel cut dimensions	:45x45mm
Body	:ABS plastic
Working temperature	:0-60 ºC
Storage temperature	:-10ºC …+80ºC
Humidity	:<%90 RH

PROGRAMMING MODEL-MD3

1) TWO POINT CALIBRATION

Lower Calibration Point :

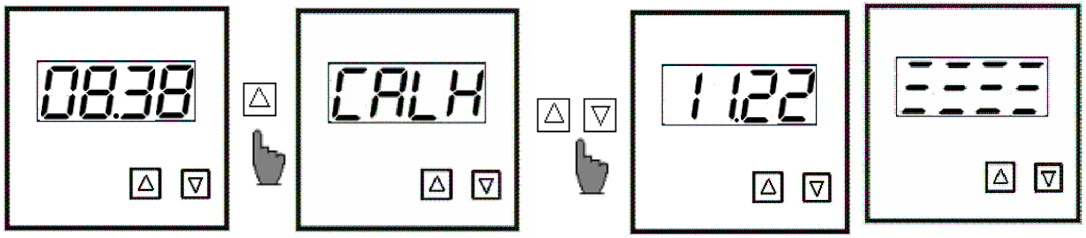


•*Move the Sensor mechanically to the zero position*.

1. ***Press*** ***DOWN*** button continuously, until the word CALL appears on the screen.
2. ***Press*** ***UP / DOWN*** to set the value on the screen zero or any value desired.
3. ***Wait*** ***2 second*** without pressing any button, the last screen appears.

- After this, the equipment goes back to operation mode.So the *Lower Calibration Point* was defined..

Upper Calibration Point :

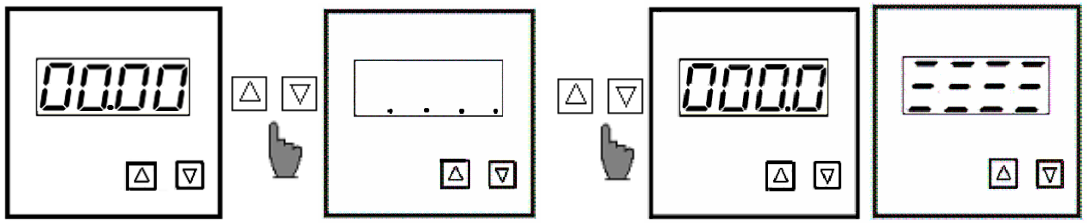


- *Move the Sensor mechanically to the maximum position*.

1. ***Press*** ***UP*** button continuously, until the word CALH appears on the screen.
2. ***Press*** ***UP / DOWN*** to set a desired value.
3. ***Wait*** ***2 second*** without pressing any button, the last screen appears.

- After this, the equipment goes back to operation mode.So the *Upper Calibration Point* was defined.

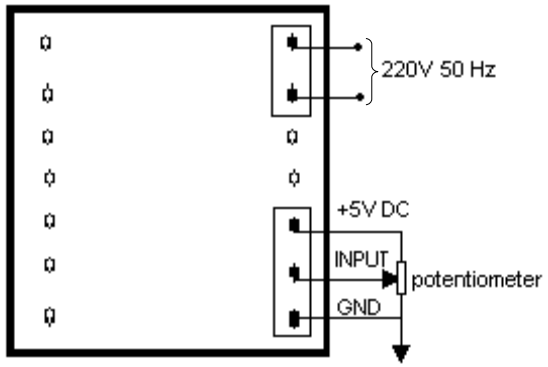
2) SETTING THE DECIMAL POINT



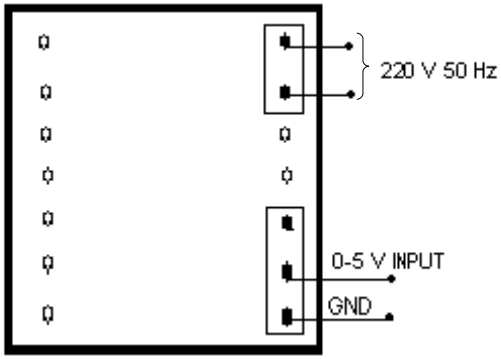
1. ***Press*** ***UP/DOWN*** button at the same time and continuously, until the second screen appears.
2. ***Press*** ***UP/DOWN*** buttons to select the decimal point.
3. ***Wait*** ***2 second*** without pressing any button, the last screen appears.

•After this, the equipment goes back to operation mode.So the *Decimal Point* was defined.

ELECTRICAL CONNECTIONS



Potentiometric sensor input



0-5 V input