

# SET POINT CONTROLLER OC557

- ✓ 5 digits, 57mm, red, green, orange
- ✓ 16 Bit Conversion
- ✓ DC and AC Process Signals
- ✓ RTD and Thermocouples
- ✓ Free programmable Display
- ✓ Two Set Point Relays
- ✓ Excitation
- ✓ Bluetooth Option
- ✓ Supply 100-240VAC or 24VDC



**OC557** is a 5 Digit programmable controller with 57mm green, red or yellow seven segments display units. The instrument is mainly designed for connection to process signals such as 0/4-20mA, and optionally 60mV to 300VDC or true RMS, RTD Sensors, Thermistors, Resistors, Potentiometers, Thermocouples and other industrial signal sources.

With keys behind the front lens the measured input signal can be assigned to any two desired display values, such as 4-20mA = 0-18500. The menu contains the assignment of the input signal to the display, selection of two set points, setting of the filter, the measuring speed, the display resolution and the password. Excitation is available for supplying of external sensors.

Service Menu *HtESt* is suitable for checking of the instrument's performance and the calibration.

**Two Set Points** can be selected within the display range of 0 to  $\pm 99999$ . They control two open collector transistors or two mechanical relay. The hysteresis can be set from 0 to 99 increments.

**Peak & Valley** memory is Option. It stores the maximum and the minimum display readings. With the keys UP and DOWN the stored value can be entered into the display. The key ACK clears the memory

**Digital Filter** calculates the average value of the measurements prior they arrive at the display. The selection can be made for 0, 1 ... 99.

**Tare** is Option and will be activated with the key SET behind the lens or with an external signal at the rear terminals. It forces the display to zero. It remains stored also when the power is switched-off from the instrument. The Tare can be cancelled at any time and the display returns to show the non-tare input signal.

**Password** is used to prevent an unauthorized access to the menu parameters. Without the password only the set points can be programmed.

**Excitation** for external Sensors is provided.

**Bluetooth** is an Option. The Menu Parameters can be remotely set from a PC. Also the measured process result can be downloaded to a PC and handled under Windows.

# SPECIFICATIONS

## INPUTS and RANGES

### Voltage

± 20mV to 300V DC  
or true RMS

### Current

0/4-20mA to 5A DC  
or true RMS

**Pt-100**, 2, 3 or 4 wire

**Thermistors 2kΩ and 96kΩ**,

**DIN Thermocouples**

J, K, R,S, B, N, T, E

### Cold Junction

Compensation 0 - 99 °C.

### Resistors

0-1 Ω to 0-100 kΩ.

2 or 4 wire terminals

### Potentiometer

Excitation 1.25V

## ACCURACY

### DC Ranges

± (0.01% from value +1Digit)

### True RMS

50Hz - 5kHz: ± (0.1%from value  
+ 2 Digit).

### Temperature

\* Pt-100/200: ± (1°C +1 Digit)

\* T/C, Thermis: ± (2°C +1 Digit)

## A-D CONVERSION

### Resolution

16 Bit.

### Measuring Rate

1-10 Samples/sec

### Linearity

± (1 LSB + 1 Digit).

### Temperature Coefficient

10 ppm/°C

## TARE

The Tare (key or external signal) sets the display to zero. The Tare can be canceled and the display will return to the non-tare condition.

The Tare remains stored also when the power is switched-off from the instrument.

## FILTER

Filter constants 0, 1 to 99 programmable.

## SET POINTS

Open Collector 60V-100mA.

Option: Two relays with one changeover 5A-230VAC

## DISPLAY

-9999 bis 99999, 7 Segments  
red, grün or yellow with decimal point. Display size 57 mm.

## SUPPLY

Mains:

115V/230V ± 10%, 48 - 60 Hz.  
DC Supply 18-36VDC (Option).

## CABINET

DIN 288x96x85 mm (WxHxD).  
Panel cut-out 282 x 92 mm.  
Pluggable screw terminals.

## EXCITATION

12V/40mA for external sensors.

## ENVIRONMENT

Working Temperature: 0-60 °C.  
Storing: -10 ... 85 °C.

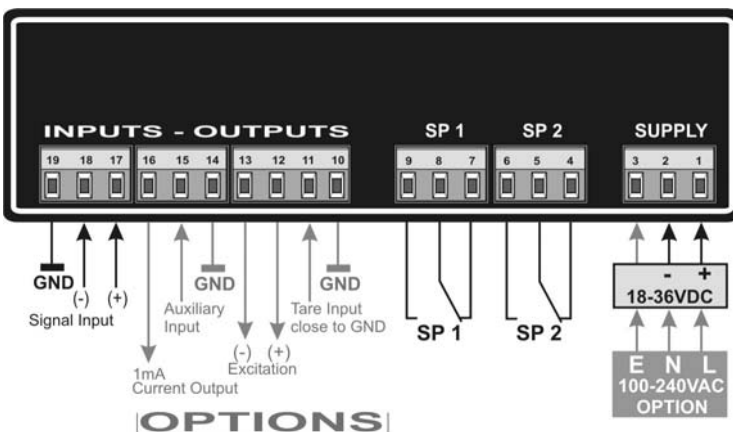
## EMC

EN 61000-3-2+A12

EN 61000-4-2, 3, 4, 5, 8, 11

EN 55022, A1, A2

## TERMINALS



## HOW TO ORDER

| OC557 -          | X - | X - | X - | X                      |
|------------------|-----|-----|-----|------------------------|
| Display red      | R   |     |     | 0 ---- No Set Points   |
| Display green    | G   |     |     | 1 ---- 2 Transistors   |
| Display yellow   | Y   |     |     | 2 ---- 2 Relays        |
| Input DC Voltage | 1   |     | 1   | ----- Mains 100-240VAC |
| DC Current       | 2   |     | 2   | ----- DC 18-36V DC     |
| AC Voltage       | 3   |     |     |                        |
| AC Current       | 4   |     |     |                        |
| Thermocouples    | 5   |     |     |                        |
| Resistors        | 6   |     |     |                        |
| Potentiometers   | 7   |     |     |                        |
| Thermistors      | 8   |     |     |                        |

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