

Large Displays for Analog Signals

OC57, OC100, OC125

- ✓ 57mm, 100mm and 125mm
- ✓ 4-20mA, 60mV ... 100 VDC
- ✓ Potentiometer, Resistors
- ✓ 24 Bit Resolution
- ✓ Free programmable
- ✓ Options: Analog Output
- ✓ Serial Data Output Port
- ✓ Excitation
- ✓ Set Point Relays
- ✓ Supply 115/230VAC or 10-30VDC



Large Displays OC57-DC, OC100-DC and OC125-DC are

4- or 6-digit programmable instruments with up to ± 200000 measuring increments. They have inputs for DC signals, strain gauges, 4-20mA loops, $\pm 100\text{mV}$ etc. and are available with 57mm, 100mm or 125mm large 7 segment display units. Free scaling permits the input signal to be displayed in units corresponding to the measured process, such as kg, gr, lb, kN, MPa etc.

The gauges are delivered with settings according to the customer's order. An optional keyboard at the rear or an IR remote controller might be used for applications requiring readjustments during the operation.

The displays have functions as process monitors without any control function, or as process controllers, generating control outputs, such as two or four set point relays, analog outputs and serial data ports.

FUNCTION

After applying the power to the instrument, the parameters, the operating mode and all settings are read from the memory and entered to the microcontroller. The display shortly shows the model and the software version and switches into the measuring mode.

The display follows the input measured signal within the preselected limits, e.g. 4-20mA = 0-5500.

Set Points are programmable within the entire display range. They activate two or two or four mechanical relay.

Digital Filter with averaging characteristic can be used for noisy signals of industrial environments. The filtering constant is programmable.

Analog Outputs 0... $\pm 10\text{V}$ and 4-20mA are generated. With the keyboard they can be assigned to any two required display values.

Tare is a subtractive constant which is activated with the keyboard or with external logic control signal. It forces the display to zero. The tare remains stored in a non-volatile memory also when the instrument is switched-off from the power.

Password prevents unauthorized entry into the menu and setting of parameters.

MENU

The Menu can be entered with the keyboard or an IR remote controller. Depending on the build-in options, the menu contains two or four set points, measuring range, filter, two analog outputs, measuring speed, display rate, resolution and decimal point, serial port parameters and the password.

SPECIFICATIONS

DISPLAY

0 ... \pm 9.9.9.9.9.9. 7 Segments red LED, 57, 100 or 125mm.

RANGES

Current: 0/4-20mA

Voltage: \pm 60mV to 100VDC

Potentiometers: >1kOhm

Resistors: 100 Ω - 100 k Ω

ADC CONVERTOR

24 Bit Sigma Delta, T/C 50ppm.

Sampling time 0,1 - 40 /sec.

Accuracy: \pm (0,1% range + 1 digit)

ANALOG OUTPUT Option

4-20mA @ 390 Ohm max.

0 ... \pm 10V @ 10kOhm min.

Resolution 16 bit.

Isolation 250V r.m.s.

SET POINTS Option

Two or 4 Relays 5A-230VAC.

Hysteresis: 0 - 99.

Delay: 0 - 99 sec.

EXCITATION Option

5 to 24VDC/40mA adjustable.

DATA PORTS Option

RS 232, RS 485, with 8 bit,

no parity, 1 stop, 300-230 400 bd.

Options: MESSBUS, MODBUS, PROFIBUS DP.

SUPPLY

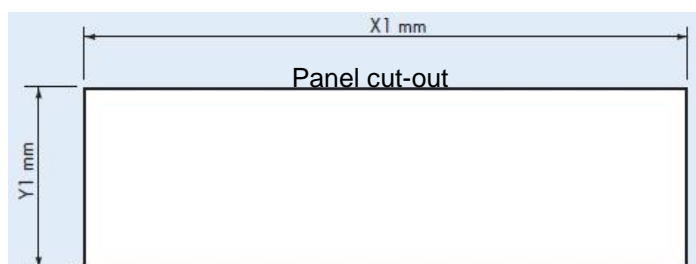
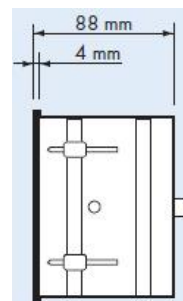
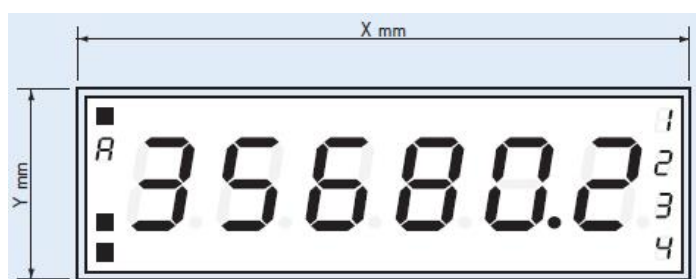
115/230V \pm 10%, 48 - 60Hz.

Option: 10-30VDC

CABINET - Aluminum

Protection: IP64

To Order	OC57R-DC	-	X	-	X	-	X	-	X	-	X	-	X
	OC100R-DC	-	X	-	X	-	X	-	X	-	X	-	X
	OC125R-DC	-	X	-	X	-	X	-	X	-	X	-	X
Display	4 digits	-----	4										
	6 digits	-----	6										
Input	Voltage	-----	V										
	Current	-----	C										
	Process Signal	-----	P										
Supply	Mains 115VAC	-----	0										
	Mains 230VAC	-----	1										
	DC 9-36 VDC	-----	2										
Set Points	W/O	-----	0										
	4 Transistors	-----	1										
	4 Relays	-----	2										
Analog Output	W/O	-----	0										
	10V and 0/4-20mA	-----	1										
Data Port	W/O	-----	0										
	RS232 and RS485	-----	1										
Option	Mounting Angle												



Size	X	Y	X1	Y1
57-6	375	119	367	111
100-4	465	181	457	173
100-6	651	181	643	173
125-4	539	237	531	228
125-6	754	237	746	228

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