

# OENOREG+ WINE CONTROLLERS CONCISE MANUAL (59551-2)

**CAUTION:** Installation should be only performed by technically competent personnel. Local Regulations regarding electrical installation & safety must be observed.

## 1. OVERVIEW

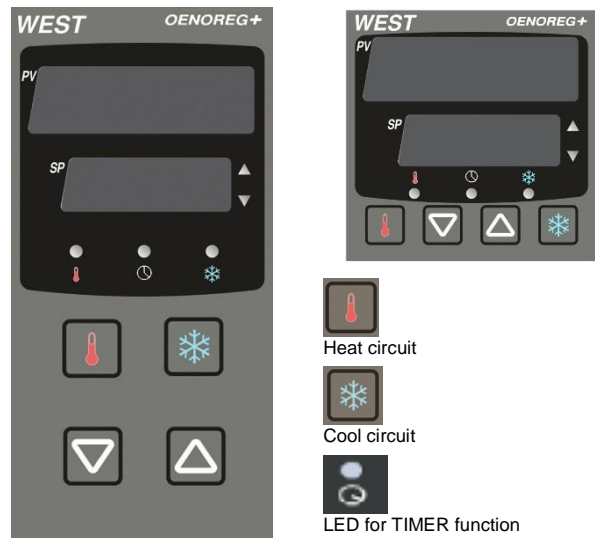
The Oenoreg+ controllers from West have been designed with the following key features specifically for reliable temperature control during wine production to ensure the highest quality wine.

- > Dual control outputs for Heating & Cooling via SPDT relays
- > Individual activation of Heating and Cooling control
- > Double set point with Heating and Cooling
- > Optional Density measurement with management of alarm
- > On/Off cycle Timer function
- > 2 Display strategies
- > Platinum probe input 100 Ohms at 0° C (Pt100 3 wires)
- > Double digital display: Process Variable (Green) and Setpoint (Red)
- > Remote and direct adjustment of the setpoint
- > Correction of the measured value
- > Alarm management and serial communication

## 2. FRONT FASCIA

48 x 96 mm – 1/8 DIN

48 x 48 mm – 1/16 DIN



- Heat circuit
- Cool circuit
- LED for TIMER function
- Output LED - Heat (up) or Cool (down)

Two 4-Digit Displays  
The Green top display shows the Process Variable  
The Red bottom display shows the desired Setpoint.  
When using double Setpoint, the Setpoint for heating and cooling are alternated in the display, with the matching LED illuminated.

Three LED (light emitting diode) mode indicator lights.  
The Heat LED is ON when the heating circuit active.  
The Heat LED flashes (double Setpoint mode only) when the heating circuit is activated, and the heat Setpoint is shown as the lower Red alternates.

The Cool LED is ON when the cooling circuit is active.  
The Cool LED flashes (double Setpoint mode only) when the cooling circuit is activated, and the Cool Setpoint is shown as the lower Red alternates.

The central Timer LED is ON when timer function is active.

Two red LED output indicator arrow lights.  
The up arrow ▲ shows that the relay output for heating is ON.  
The down arrow ▼ shows that the relay output for cooling is ON.

An operator keypad with 4 function switches

Heat switch: Press & hold for 2 secs to activate or deactivate the heating circuit.

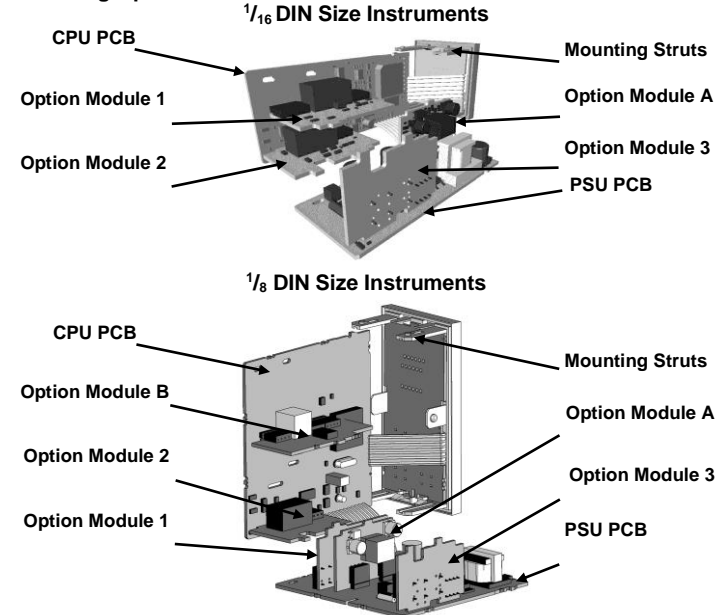
Cool switch: Press & hold for 2 secs to activate or deactivate the cooling circuit.

Density Measurement: If this option is fitted briefly press both & together to display the density measurement.

## 3. INSTALLATION

The models covered by this manual have two different DIN case sizes (refer to section 12). Some installation details vary between models. These differences have been clearly shown.

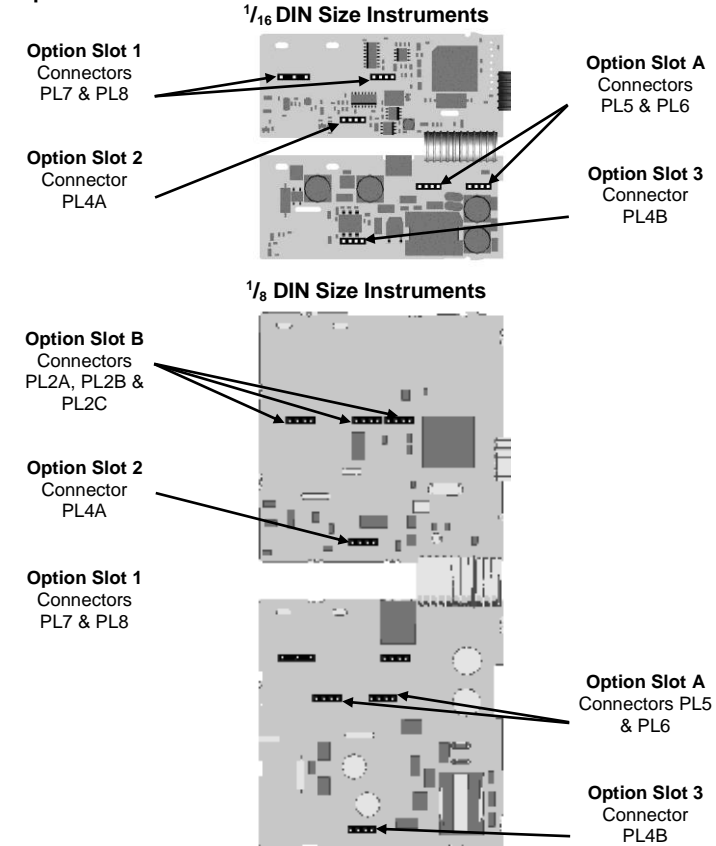
### Installing Option Modules



To access modules 1, A or B, first detach the PSU and CPU boards from the front by lifting first the upper, and then lower mounting struts. Gently separate the boards.  
a. Plug the required option modules into the correct connectors, as shown below.  
b. Locate the module tongues in the corresponding slot on the opposite board.  
c. Hold the main boards together while relocating back on the mounting struts.  
d. Replace the instrument by aligning the CPU and PSU boards with their guides in the housing, then slowly push the instrument back into position.

Note: Option modules are automatically detected at power up.

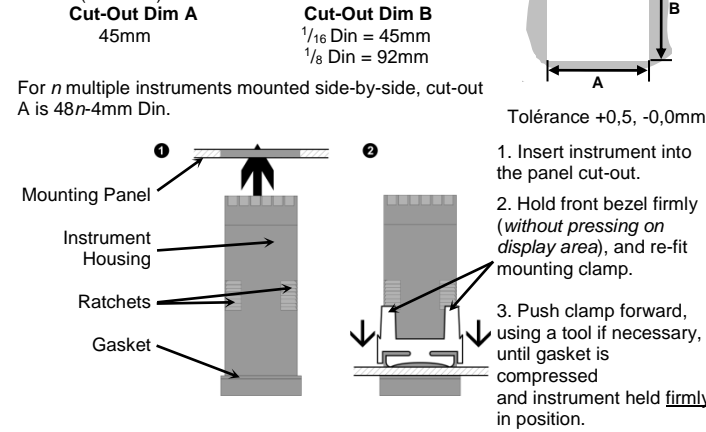
### Option Module Connectors



Note: The message **Go to Conf** is displayed on first power-up or hardware change. To enter conf mode use the unlock code, in section 4, and the key. You must scroll through all the configuration parameters, in section 5, to avoid this message on subsequent power-ups.

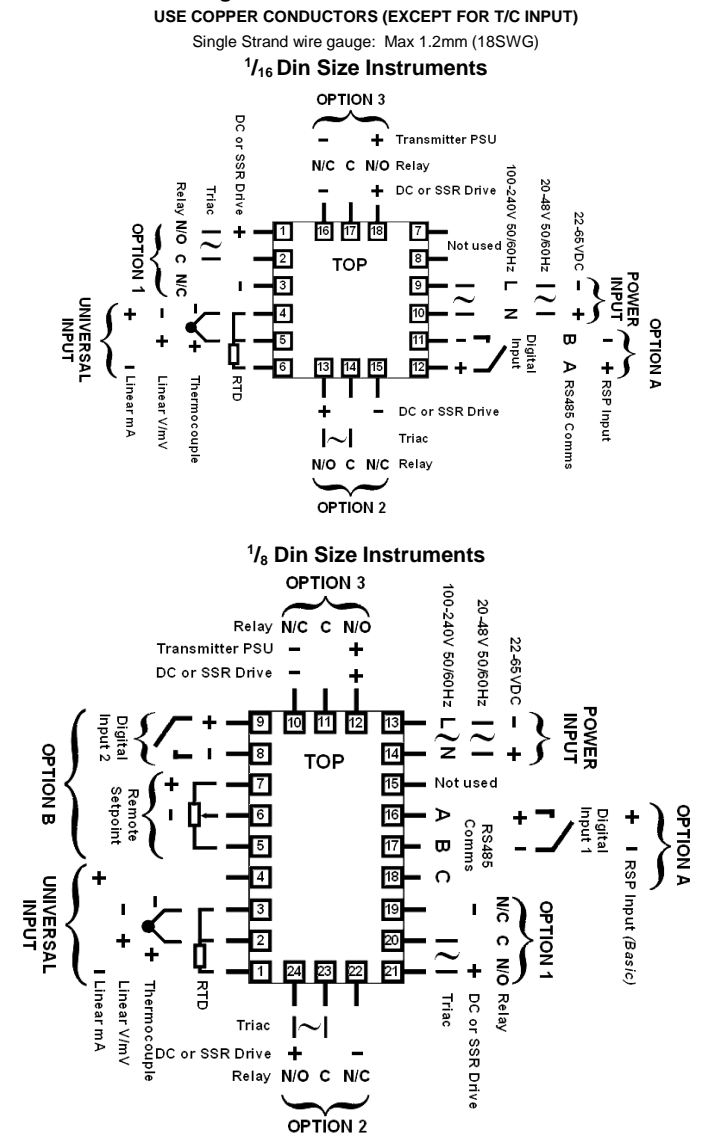
### Panel-Mounting

The mounting panel must be rigid, and may be up to 6.0mm (0.25inch) thick. Cut-out sizes are:



CAUTION: For an effective IP66 seal against dust and moisture, ensure gasket is well compressed against the panel, with the 4 tongues located in the same ratchet slot.

### Rear Terminal Wiring



The RSP (Option A) or Remote Setpoint Input (Option B) is used for the Wine Density reading.

These diagrams show all possible option combinations. The actual connections required depends on the exact model and options fitted.  
CAUTION: Check information label on housing for correct operating voltage before connecting supply to Power Input  
Fuse: 100 – 240V ac – 1amp anti-surge  
24/48V ac/dc – 315mA anti-surge

## 4. SELECT MODE – SLCT

Select mode is used to access the configuration and operation menu functions. It can be accessed at any time by holding down and pressing . In select mode, press or to choose the required mode, press to enter. An unlock code is required to prevent unauthorised entry to Configuration, & Setup modes. Press or to enter the unlock code, and then press to proceed.

Mode	Upper Display	Lower Display	Description	Default Unlock Codes
Operator	OPtP	SLCT	Normal operation	None
Set Up	SEtP	SLCT	Tailor settings to the application	10
Configuration	ConF	SLCT	Configure the instrument for use	20
Product Info	Info	SLCT	Check manufacturing information	None
Timer mode	Timr	SLCT	Timer	0

Note: The instrument will always return automatically to Operator mode if there is no key activity for 2 minutes.

## 5. CONFIGURATION MODE – ConF

First select Configuration mode from Select mode (refer to section 4). Press to scroll through the parameters, then press or to set the required value. Press to accept the change, otherwise parameter will revert to previous value. To exit from Configuration mode, hold down and press to return to Select mode.

Note: Parameters displayed depends on how instrument has been configured. Refer to user guide (available from your supplier) for further details. Parameters marked \* are repeated in Setup Mode.

Parameter	Lower Display	Upper Display	Adjustment range & Description	Default Value	
Input Range/Type	inPt		See following table for possible codes	JL	
Code	Input Type & Range	Code	Input Type & Range	Code	Input Type & Range
bL	B : 100 - 1824 °C	L	L : 0.0 - 537.7 °C	P24F	PtRh20% vs. 40%: 32 - 3362 °F
bF	B : 211 - 3315 °F	L	L : 32.0 - 999.9 °F		
L	C : 0 - 2320 °C	N	N : 0 - 1399 °C	PtF	Pt100 : -199 - 800 °C
L	C : 32 - 4208 °F	N	N : 32 - 2551 °F	PtF	Pt100 : -328 - 1472 °F
J	J : -200 - 1200 °C	R	R : 0 - 1759 °C	PtF	Pt100 : -128.8 - 537.7 °C
J	J : -328 - 2192 °F	R	R : 32 - 3198 °F	PtF	Pt100 : -199.9 - 999.9 °F
J	J : -128.8 - 537.7 °C	S	S : 0 - 1762 °C	0.20	0 - 20 mA DC
J	J : -199.9 - 999.9 °F	S	S : 32 - 3204 °F	4.20	4 - 20 mA DC
K	K : -240 - 1373 °C	T	T : -240 - 400 °C	0.50	0 - 50 mV DC
K	K : -400 - 2503 °F	T	T : -400 - 752 °F	10.50	10 - 50 mV DC
K	K : -128.8 - 537.7 °C	T	T : -128.8 - 400.0 °C	0.5	0 - 5 V DC
K	K : -199.9 - 999.9 °F	T	T : -199.9 - 752.0 °F	1.5	1 - 5 V DC
L	L : 0 - 762 °C	P	PtRh20% vs. 40%: 0 - 1850 °C	0.10	0 - 10 V DC
L	L : 32 - 1403 °F	P	PtRh20% vs. 40%: 0 - 1850 °C	2.10	2 - 10 V DC

Note: Decimal point shown in table indicates temperature resolution of 0.1°

Parameter	Lower Display	Upper Display	Adjustment range & Description	Default Value
Scale Range Upper Limit	rUL		Scale Range Lower Limit +100 to Range Maximum	Range max (Lin=1000)
Scale Range Lower Limit	rLL		Range Minimum to Scale Range Upper Limit -100	Range min (Linear=0)
Decimal point position	dPoS		0=xxxx, 1=xxx.x, 2=xx.xx, 3=x.xxx (non temperature range only)	
Density Input Range (RSP)	r inP	0.20	0 to 20 mA DC input	0.10
		4.20	4 to 20 mA DC input	
		0.10	0 to 10 V DC input	
		2.10	2 to 10 V DC input	
		0.5	0 to 5 V DC input	
		1.5	1 to 5 V DC input	
		100	0 to 100mV DC input	Available on full RSP (Slot B) only
		Pot	Potentiometer (2KΩ minimum)	
RSP Upper Limit	rSPu		-1999 to 9999	Range max
RSP Lower Limit	rSPL		-1999 to 9999	Range min
RSP Offset	rSPo		Constrained within Scale Range Upper & Scale Range Lower limits	0

Parameter	Lower Display	Upper Display	Description	Default Value
Decimal place	rSPP		0 to 3	0
Number of Setpoints	SEtP		1 SP (single) or 2 SP (double)	1 SP
Alarm 1Type		P_H	Process High Alarm	P_H
		P_Lo	Process Low Alarm	
		dE	Deviation Alarm	
		bRNd	Band Alarm	
		nonE	No alarm	
High Alarm 1 value*			Range Minimum to Range Maximum	Range Max
Low Alarm 1 value*				Range Min
Dev. Alarm 1 value*	dRL		+/- Span from setpoint in display units	5
Band Alarm 1 value*	bRL		1 LSD to span from setpoint	5

